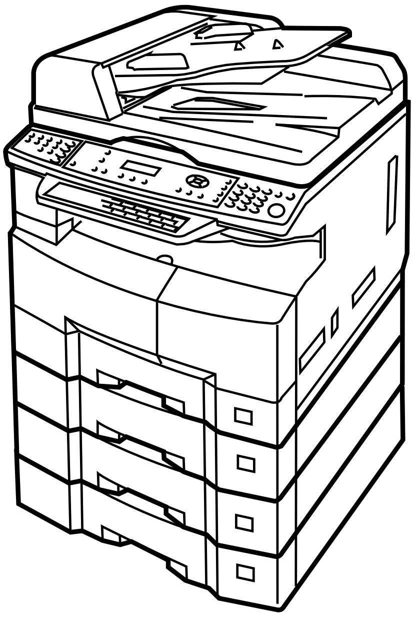
Order Number: MGCS060808C0
H21

Service Handbook

Digital Imaging Systems

DP-8020E/8020P/8016P

[Version 1.0]



⚠ WARNING

This service information is designed for experienced repair technicians only and is not intended for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt within this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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Panasonic®

General Annotations

1. Panasonic Digital Document Company and other Panasonic Sales Companies reserve the right to change any information enclosed herein without prior notification.
   (This includes, but is not limited to, parts pricing, availability, and text)

2. Electrical parts supplied may include previously used components.

3. ⚠ **Important Safety Notice**
   Components identified by a ⚠ mark, have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

4. In New Parts column, "N" indicates part is used only in DP-8020E/8020P*/8016P models, "C" indicates part is used in previous models.

5. In Remarks column, "PM" indicates "Preventive Maintenance Part".

6. In Remarks column, "RTL" indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.

7. This "Unit" which includes other itemized parts is provided as "Limited Availability" for your convenience, and will only be offered for up to 3 years after the production of the unit ceases. However, the individual contents of the assembly will be available for the standard period.

8. **This Product Uses Lead (Pb) Free Solder Printed Circuit Boards (PCBs).**
   Information regarding Lead-Free (PbF) solder;

   Distinction of PbF PCB:
   PCBs (manufactured) using lead free solder will have a PbF mark following the PCB part numbers in a label on the PCB.

   Caution:
   - Pb free solder has a higher melting point than standard solder; typically the melting point is 86-104°F (30-40°C) higher. Please use a soldering iron with temperature control and adjust it to 698±20°F (370±10°C). Exercise care while using higher temperature soldering irons, do not heat the PCB for too long to prevent solder splash or damage to the PCB.
   - Pb free solder will tend to splash when heated too high (about 1112°F/600°C).
   - ECO SOLDER M705 (available from Senju Metal Industry Co., Ltd.; URL: http://www.senju-m.co.jp) is recommended when repairing PbF PCBs.

* DP-8020P is not available for USA and Canada.

General Annotations

9. **Important Notice**
(Especially in those countries belonging to the European Union):

This product is fully compliant with the national laws transposed from the EU Directive on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment, effective 1st July 2006 in the EU countries.

In order for the product to comply with the RoHS Directive, the six particular substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers) have been either totally eliminated or limited to the concentration level below maximum allowed. Consequently spare parts have been changed to RoHS-compliant parts where applicable.

To ensure compliance with the spare parts application of the RoHS legislation, please make sure to follow the details provided in this manual when ordering spare parts and carrying out repairs.

The contents of this Service Handbook, and the Specifications are subject to change without notice. Panasonic Communications Co., Ltd. reserves the right to make improvements in the product design without reservation and without notice.
Published in Japan.

Important Notice

Please read these Instructions completely **BEFORE** installing any optional accessories. Installing the additional board, or connector with the power ON (only the power switch OFF) could damage the SPC, and/or SC board.

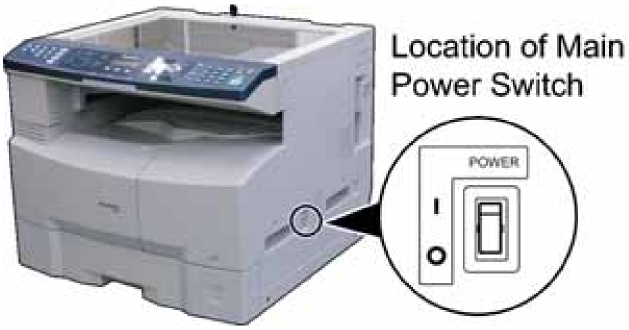
If the Hard Disk Drive Unit is installed, to prevent a Disk Scan Function from being performed (similar to when the power is abruptly interrupted to the PC), it is important to follow the step sequence below when turning OFF the Power Switch on the machine.

How to turn OFF the Power:

<Example : DP-8020>

1. If the machine is in the "ENERGY SAVER (Shutdown Mode)", you may turn the Power Switch on the machine to the OFF position. If it is not in the "ENERGY SAVER (Shutdown Mode)", continue to step 2 below.
2. Press "FUNCTION" and "ENERGY SAVER" keys simultaneously first.
3. Wait approximately 10 seconds while the machine writes the closing status onto the Hard Disk Drive Unit, and advances into "ENERGY SAVER MODE".
4. Turn the Power Switch on the machine to the OFF position.
5. Disconnect the Telephone Line Cable, if the Fax Option is installed.
6. Unplug the AC Power Cord.

(When the Fax option is installed, there is a remote possibility of electrocution when servicing the unit during a Lightning Storm. As a precaution, disconnect the Telephone Line Cable first, before unplugging the AC Power Cord.



Note:
Main Power Switch
I = Power ON
O = Power OFF

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Wichtiger Hinweis

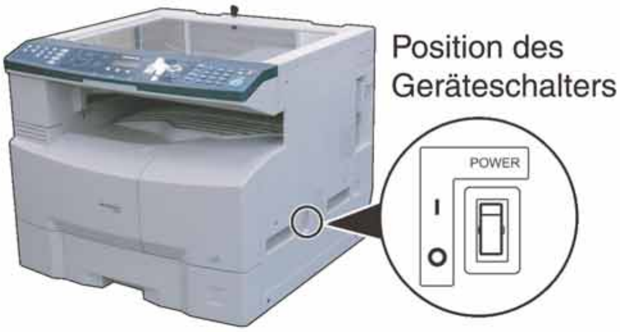
Diese Vorschriften bitte ganz durchlesen, **BEVOR** die Maschine repariert oder optionales Zubehör installiert wird. Der Einbau einer zusätzlichen Leiterplatte oder eines Steckers, wenn die Netzspannung angeschaltet ist (bei ausgeschaltetem vorderen Betriebsschalter), kann die SPC- und/oder SC-Leiterplatte beschädigen.

Um eine Ausführung der Disk-Scanfunktion bei einer eingebauten Festplatte zu unterbinden (wenn z.B. die Stromzufuhr des PCs plötzlich unterbrochen wird), muss beim Ausschalten des Geräts unbedingt die folgende Schrittreihenfolge eingehalten werden.

Ausschalten der Maschine:

<Beispiel : DP-8020>

1. Wenn sich das Gerät im "ENERGIESPARMODUS (Schließmodus)" befindet, können Sie den Geräteschalter auf OFF (AUS) stellen. Falls sich das Gerät nicht im "ENERGIESPARMODUS (Schließmodus)" befindet, setzen Sie mit den nachfolgenden Schritt 2 fort.
2. Betätigen Sie die Tasten "FUNKTION" und "ENERGIESPARMODUS" gleichzeitig.
3. Warten Sie ca. 10 Sekunden, bis das Gerät den Abschließstatus auf die Festplatte schreibt und in den "ENERGIESPARMODUS" umschaltet.
4. Bringen Sie den Geräteschalter in die Stellung AUS.
5. Falls die Fax-Option installiert ist, ist das Telefonkabel abzuziehen.
6. Das Netzkabel abziehen.
   (Wenn die Fax-Option installiert ist, besteht die Möglichkeit eines Stromschlags, wenn während eines Gewitters eine Wartung ausgeführt wird. Als Vorsichtsmaßnahme empfehlen wir, zuerst das Telefonkabel und dann das Netzkabel abzuziehen.)



Hinweis:
Hauptnetzschalter
| = eingeschaltet
O = ausgeschaltet

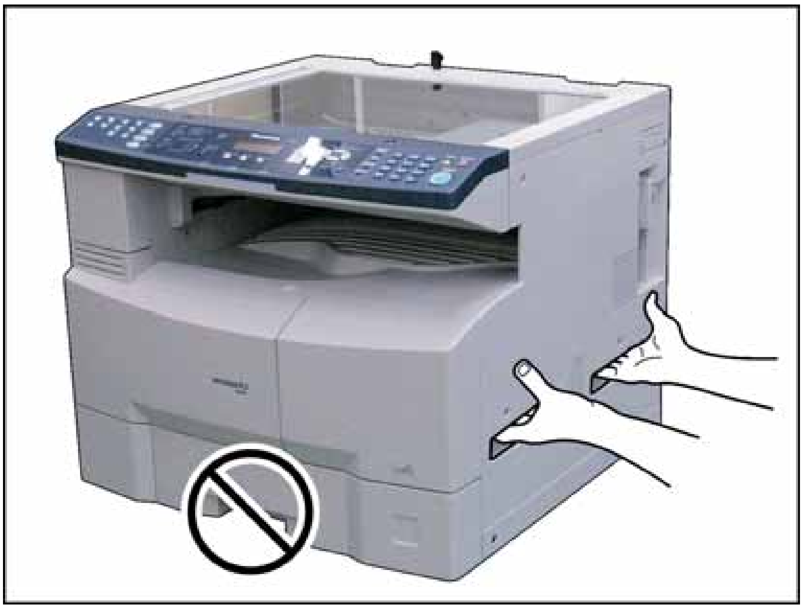
⚠ WARNUNG

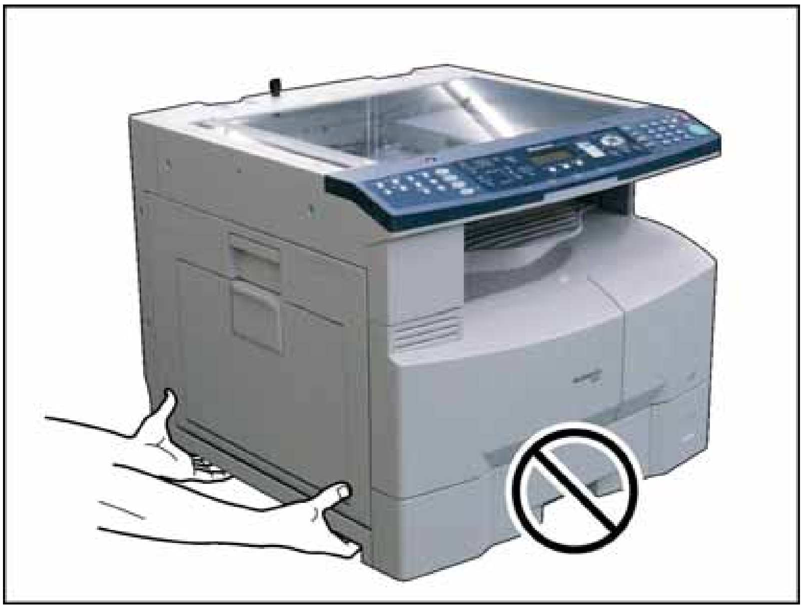
Diese Wartungsinformation ist ausschließlich für erfahrenes Wartungspersonal und nicht für allgemeine Wartung durch den Laien bestimmt. Die Information enthält keine Warn- und Vorsichtshinweise hinsichtlich potentieller Gefahren für nicht professionelle Benutzer. Elektrisch betriebene Geräte dürfen nur durch erfahrenes technisches Personal gewartet oder repariert werden. Jegliche Wartung oder Reparatur durch unerfahrene Personen kann zu ernsthaften Verletzungen bzw. zu einem tödlichen Stromschlag führen.

* Technishche Änderungen jederzeit vorbehalten. Panasonic Communications Co., Ltd. behält sich das Recht vor, jederzeit und ohne Mitteilung Verbesserungen des Produkt-Design durchzuführen.

Caution:

Depending on your machine’s model, it may weight approximately 93.26 - 98.33 lb (42.3 - 44.6 kg) without any options.
To prevent injuries, use the appropriate number of personnel to **lift, or move the machine as illustrated**.
Do not lift the machine by the Paper Tray as it may cause damage and/or bodily injury.





Note:

Refer to the Installation Instructions when installing the machine.

Precautions

For Your Safety

To prevent severe injury and loss of life, read this section carefully before servicing the Panasonic machine to ensure proper and safe operation of your machine.
Please ensure that the machine is installed near a wall outlet and is easily accessible.

- This section explains the Warnings and Cautions used in the machine and/or this manual.

⚠ **WARNING:**	Denotes a potential hazard that could result in serious injury or death.
⚠ **CAUTION:**	Denotes hazards that could result in minor injury or damage to the machine.

- This section also explains the Warnings and Cautions used in the machine and/or this manual.

🛇 🛇 🛇	These symbols are used to alert operators to a specific operating procedure that must not be performed.
❗	These symbols are used to alert operators to a specific operating procedure that must be emphasized in order to operate the machine safely.

⚠ WARNING

Power and Ground Connection Cautions

❗ Ensure that the plug connection is free of dust. In a damp environment, a contaminated connector can draw a significant amount of current that can generate heat and eventually cause fire if left unattended over an extended period of time.

❗ Always use the power cord provided with your machine. When an extension power cord is required, always use a properly rated cord.
- 120 V/15 A or AC 220 - 240V/10 A

If you use a cord with an unspecified current rating, it may be underrated, and the machine, or plug may emit smoke, orbecome hot to the touch.

🛇 Do not attempt to repair, pull, bend, chafe or otherwise damage the power cord. Do not place a heavy object on the cord. A damaged cord can cause fire or electric shocks.

🛇 Never touch a power cord with wet hands. Danger of electric shock exists.

❗ If the power cord is damaged, or insulated wires are exposed, contact the authorized Panasonic dealer for a replacement. Using a damaged cord can cause fire or electric shocks.

Stop operation immediately if your machine emits smoke, excessive heat, unusual noise, or abnormal smell, or if water is spilt onto the machine. These conditions can cause fire. Immediately switch Off and unplug the machine, and contact the authorized Panasonic dealer.

🛇 Do not disconnect or reconnect the machine while the power switch is in the On position. Disconnecting a live connector can cause arcing, consequently deforming the plug and cause fire.

❗ When disconnecting the machine, grasp the plug instead of the cord. Pulling on a cord forcibly can damage it, and cause fire, or an electric shock.

❗ When the machine is not used over an extended period of time, switch it Off and unplug it. If an unused machine is left connected to a power source for a long period, degraded insulation can cause electric shocks, current leakage or fire.

❗ Be sure to switch Off, and unplug the machine before accessing the interior of the machine for cleaning, maintenance or fault clearance. Access to a live machine's interior can cause an electric shock.

Once a month, unplug the machine and check the power cord for the following. If you notice any unusual condition, contact your authorized Panasonic dealer

- The power cord is plugged firmly into the receptacle.
- The plug is not excessively heated, rusted, or bent.
- The plug and receptacle are free of dust.
- The cord is not cracked or frayed.

Operating Safeguards

Do not touch areas where these caution labels are attached to, the surface may be very hot and may cause severe burns.

Do not place any liquid container such as a vase, or coffee cup on the machine. Spilt water can cause fire or shock hazard.

Do not place any metal parts such as staples or clips on the machine. If metal and flammable parts get into the machine, they can short-circuit internal components, and cause fire or electric shocks.

If debris (metal or liquid) gets into the machine, switch Off and unplug the machine immediately.
Operating a debris-contaminated machine can cause fire or electric shock.

Do not try to alter the machine configuration or modify any parts. An unauthorized modification can cause smoke or fire.

Consumable Safeguards

Never dispose of toner, toner cartridge, or a waste toner container into an open flame.Toner remaining in the cartridge/bottle can cause an explosion, burns and/or injuries.

Keep button batteries/stamp out of the reach of children to prevent chocking or poisoning. If a button battery/stamp is swallowed accidentally, get medical treatment immediately,

Notice: California only:

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

⚠ CAUTION

Installation and Relocation Cautions

Do not place the machine near heaters or volatile, flammable, or combustible materials such as curtains that may catch fire.

Do not place the machine in a hot, humid, dusty, or poorly ventilated environment. Prolonged exposure to these adverse conditions can cause fire or electric shocks.

Place the machine on a level and sturdy surface that can withstand the weight of the machine.
Refer to the Specifications section for the weight of the machine.
If tilted, the machine may tip-over and cause injuries.

When relocating the machine, remove the toner and/or developer, and pack the machine with proper packing materials for shipping.

When moving the machine, be sure to unplug the power cord from the outlet. If the machine is moved with the power cord attached, it can cause damage to the cord which could result in fire or electric shock.

⚠ CAUTION

Operating Safeguards

⊘ Do not place a magnet near the safety switch of the machine. A magnet can activate the machine accidentally, resulting in injuries.

⊘ Do not use a highly flammable spray, or solvent near the machine. It can cause fire.

⊘ When copying a thick document, do not use excessive force to press it against the scanning glass. The glass may break and cause injuries.

⊘ Never touch a labelled area found on, or near the heat roller You can get burnt. If a sheet of paper is wrapped around the heat roller, do not try to remove it yourself to avoid injuries or burns. Switch Off the machine immediately, and wait until it cools down.

⊘ Do not use conductive paper, e.g. folding paper, carbon paper and coated paper. When a paper jam occurs, they can cause a short circuit and fire.

⊘ Do not place any heavy object on the machine. An off-balance machine can tip-over, or the heavy object can fall, causing damage and/or injuries.

❗ Keep the room ventilated when using the machine for an extended period of time to minimize the ozone density in the air.

⊘ When copying with the document cover open, do not look directly at the exposure lamp. Direct eye exposure can cause eye fatigue or eye injury.

❗ Pull the paper trays out slowly to prevent injuries.

❗ When removing jammed paper, make sure that no pieces of torn paper are left in the machine. A piece of paper remaining in the machine can cause fire. If a sheet of paper is wrapped around the heat roller, or when clearing a jammed paper that is difficult or impossible to see, do not try to remove it by yourself. Doing so can cause injuries or burns. Switch Off the machine immediately, and wait until it cools down.

Consumable Safeguards

⊘ Never heat the drum cartridge, or scratch its surface. A heated, or scratched drum can be hazardous to your health.

⊘ Do not mix new and old batteries together, as they can burst or leak, causing a fire or injuries. Be sure to use the specified type of batteries only.

❗ Ensure that batteries are installed with correct polarity. Incorrectly installed batteries can burst or leak, resulting in spillage or injuries.

Others

- When clearing a paper jam or other fault, follow the appropriate procedure given in this manual.
- The machine has a built-in circuit for protection against lightning-induced surge current. If lightning strikes in your neighborhood, maintain an ample distance from the machine, and do not touch it until the lightning stops.
- If you notice flickering, distorted images, or noises on your audio-visual units, your machine may be causing radio interference. Switch it Off, and if the interference disappears, the machine is the cause of the radio interference. Perform the following procedure until the interference is corrected.
  - Move the machine, and theTV and/or radio away from each other.
  - Reposition or reorient the machine, and theTV and/or radio.
  - Unplug the machine, TV and/or radio, and replug them into outlets operating on different circuits.
  - Reorient the TV and/or radio antennas, and cables until the interference stops. For an outdoor antenna, ask your local electrician for support.
  - Use a coaxial cable antenna.

Für Ihre Sicherheit

Um schwere Verletzungen, möglicherweise mit Todesfolge, zu vermeiden, lesen Sie diesen Abschnitt sorgfältig durch, bevor Sie den Panasonic verwenden, um richtige und sichere Verwendung Ihrer Maschine sicherzustellen.

■ Dieser Abschnitt erklärt die Warnungen und Vorsichtsmaßregeln, die in dieser Bedienungsanleitung verwendet werden.

⚠ **WARNUNG**	Weist auf eine potenzielle Gefahr hin, die zu schweren Verletzungen oder Tod führen kann.
⚠ **Achtung**	beschreibt Gefahren, die zu leichten Verletzungen oder Schäden an der Maschine führen können.

■ Dieser Abschnitt erklärt auch die grafischen Symbole, die in dieser Bedienungsanleitung verwendet werden.

⊘ ⊘ ⊘	Diese Symbole werden verwendet, um Bediener auf spezifische Bedienverfahren hinzuweisen, die vermieden werden müssen.
❗ ●	Diese Symbole werden verwendet, um Bediener auf spezifische Bedienverfahren hinzuweisen, die genutzt werden müssen, um die Maschine sicher zu betreiben.
⚠	Dieses Symbol dient dazu, die Bediener darauf aufmerksam zu machen, dass eine heiße Oberfläche vorhanden ist, die Verbrennungen verursachen kann.

⚠WARNUNG

Vorsichtsmaßregeln zu Strom- und Erdungsverbindungen

❗ Stellen Sie sicher, dass die Steckerverbindung staubfrei ist. In einer feuchten Umgebung kann ein verschmutzter Secker eine beträchtliche Menge Strom aufnehmen, die Hitze erzeugen und nach längerer Zeit in diesem Zustand zu Bränden führen kann.

❗ Verwenden Sie immer das mit dem Gerät mitgelieferte Netzkabel. Wenn ein Verlängerungskabel erforderlich ist, verwenden Sie immer ein Kabel mit geeigneter Stärke.
● 120-240V/6.5A
Wenn Sie ein Kabel mit einer nichtspezifizierten Stromstärke verwenden, kann die Maschine Rauch abgeheben oder sich außen stark erhitzen.

⊘ Versuchen Sie nicht, das Netzkabel zu modifizieren und vermeiden Sie Ziehen, Biegen, Scheuern oder anderweitige Beschädigung. Stellen Sie keine schweren Gegenstände auf das Netzkabel. Ein beschädigtes Netzkabel kann zu Bränden oder elektrischen Schlägen führen.

⊘ Niemals ein Netzkabel mit nassen Händen berühren. Dabei besteht die Gefahr elektrischer Schläge.

❗ Wenn das Netzkabel beschädigt ist oder isolierte Drähte freiliegen, wenden Sie sich wegen Ersatz an Ihren Panasonic-Fachhändler. Verwendung eines beschädigten Netzkabels kann zu Bränden oder elektrischen Schlägen führen.

● Sofort den Betrieb stoppen, wenn Ihre Maschine Rauch, starke Hitze, ungewöhnliche Geräusche oder Geruch abgibt, oder wenn Wasser auf die Maschine geschüttet wurde. Durch diese Bedingungen können Brände verursacht werden. Schalten Sie die Maschine sofort aus, ziehen Sie den Stecker ab, und wenden Sie sich an Ihren Panasonic-Fachhändler.

⊘ Versuchen Sie nicht, die Maschine abzutrennen oder neu anzuschließen, während der Netzschalter auf Ein steht. Durch Abziehen eines stromführenden Steckers kann ein Lichtbogen entstehen, durch den Verformungen und Brände verursacht werden.

❗ Beim Abtrennen des Netzsteckers immer am Stecker und nicht am Kabel ziehen. Wenn ein Stecker gewaltsam abgezogen wird, kann er beschädigt werden und Brände oder elektrische Schläge verursachen.

❗ Wenn die Maschine längere Zeit über nicht verwendet wird, schalten Sie sie aus und ziehen den Netzstecker ab. Wenn eine nichtverwendete Maschine längere Zeit an einer Stromquelle angeschlossen bleibt, kann beeinträchtigte Isolierung zu elektrischen Schlägen, Stromlecks oder Feuer führen.

❗ Schalten Sie die Maschine immer aus und ziehen Sie den Stecker ab, bevor Sie auf das Innere der Maschine zugreifen, um Reinigung, Wartung oder Fehlerbehebung auszuführen. Zugriff zu Teilen im Maschineninneren kann zu elektrischen Schlägen führen.

Einmal im Monat die Maschine vom Netz trennen und das Netzkabel auf Folgendes prüfen. Wenn ein ungewöhnlicher Zustand vorgefunden wird, wenden Sie sich an Ihren Panasonic-Fachhändler.

- Das Netzkabel ist fest in die Steckdose eingesteckt.
- Der Stecker ist nicht stark erhitzt, verrostet oder verbogen.
- Stecker und Steckdose sind frei von Staub.
- Das Kabel ist nicht gerissen oder aufgefasert.

Bedienungs-Schutzmaßnahmen

Berühren Sie nicht Bereiche, wo diese Vorsichtsaufkleber an der Oberfläche angebracht sind, da diese sehr heiß sein können und zu schweren Verbrennungen führen können.

Stellen Sie keine Flüssigkeitsbehälter wie eine Vase oder Kaffeekanne auf die Maschine. Verschüttetes Wasser kann zu Bränden oder elektrischen Schlägen führen.

Legen Sie keine Metallgegenstände wie Heft- oder Büroklammern auf die Maschine. Falls Metall- oder brennbare Teile in die Maschine geraten, können sie zu Kurzschlüssen an internen Bauteilen führen und Brände oder elektrische Schläge verursachen.

Falls Fremdkörper (Metall oder Flüssigkeiten) in die Maschine geraten, sofort ausschalten und den Stecker abziehen. Den Panasonic-Fachhändler anrufen. Bedienung einer durch Fremdkörper verschmutzten Maschine kann zu Bränden oder elektrischen Schlägen führen.

Niemals die Maschinenabdeckungen öffnen, die mit Schrauben festgeschraubt sind, wenn nicht spezifisch in der “Bedienungsanleitung” angegeben. Ein Hochspannungsbauteil kann zu elektrischen Schlägen führen.

Versuchen Sie nicht, die Maschinenkonfiguration zu ändern oder Teile zu modifizieren. Eine unbefugte Modifikation kann zu Rauch oder Bränden führen.

VerbrauchsmaterialienSchutzmaßnahmen

Niemals Toner, Tonerkassette oder Tonerabfallbehälter in offenes Feuer werfen. In der Kassette verbleibender Toner kann eine Explosion verursachen und zu Verbrennungen und/oder Verletzungen führen.

Halten Sie Knopfbatterien/Stempel außer Reichweite von Kindern. Wenn eine Knopfbatterie/Stempel versehentlich verschluckt wird, sofort ärztliche Hilfe aufsuchen.

⚠ ACHTUNG

Vorsichtsmaßregeln zu Aufstellung und Transport

Platzieren Sie die Maschine nicht in der Nähe von Heizkörpern oder flüchtigen, entflammbaren oder brenbaren Materialien wie Vorhänge, die Feuer fangen können.

Stellen Sie die Maschine nicht in einer heißen, feuchten, staubigen oder schlecht belüfteten Umgebung auf. Längerer Betrieb unter diesen Bedingungen kann zu Bränden oder elektrischen Schlägen führen.

Die Maschine auf eine ebene und feste Oberfläche stellen

Wenn sie geneigt wird, kann die Maschine umkippen und Verletzungen verursachen.

Beim Aufstellungsänderung des Geräts wenden Sie sich an Ihren Panasonic-Fachhändler.

Beim Transport der Maschine ziehen Sie den Netzstecker von der Steckdose ab. Wenn die Maschine bei eingestecktem Netzkabel und -stecker bewegt wird, kann das Netzkabel beschädigt werden, was zu Bränden oder elektrischen Schlägen führen kann.

Bedienungs-Schutzmaßnahmen

Bringen Sie keinen Magneten in die Nähe des Sicherheitsschalters der Maschine. Ein Magnet kann die Maschine versehentlich aktivieren, was zu Verletzungen führen kann.

Verwenden Sie keine leicht entflammbaren Sprays oder Lösungsmittel in der Nähe der Maschine. Dadurch können Brände verursacht werden.

Beim Kopieren eines dicken Originals nicht starke Kraft verwenden, um es gegen das Originalauflageglas zu drücken. Das Glas kann brechen und Verletzungen verursachen.

Niemals den markierten Bereich in der Nähe der Heizwalze berühren. Dabei besteht die Gefahr von Verbrennungen. Wenn ein Blatt Papier um die Heizwalze gewickelt ist, versuchen Sie nicht, es selber zu entfernen, um Verletzungen oder Verbrennungen zu vermeiden. Schalten Sie das Gerät sofort aus und wenden Sie sich an Ihren Panasonic-Fachhändler.

Verwenden Sie kein leitendes Papier, wie z.b. Faltpapier, Karbonpapier oder beschichtetes Papier. Wenn ein Fehleinzug auftritt, kann dies zu Kurzschlüssen und Bränden führen.

Stellen Sie keine schweren Gegenstände auf die Maschine. Eine unbalancierte Maschine kann umkippen, oder schwere Gegenstände können herunterfallen, was zu Schäden und/oder Verletzungen führen kann.

Halten Sie den Raum gut gelüftet, wenn Sie die Maschine längere Zeit über verwenden, um die Ozondichte in der Luft zu minimieren.

Beim Kopieren mit offener Originalauflage-Abdeckung nicht direkt in die Belichtungslampe blicken. Direkte Bestrahlung des Auges kann zu Augenermüdung oder sogar zu Augenschäden führen.

Die Papierfächer langsam ziehen, um Verletzungen zu vermeiden.

Beim Entfernen von fehleingezogenem Papier stellen Sie sicher, dass keine abgerissenen Papierreste in der Maschine verbleiben. Ein in der Maschine verbleibendes Stück Papier kann Feuer fangen. Wenn ein Blatt Papier um die Heizwalze gewickelt ist oder wenn ein besonders schwieriger Papierfehleinzug behoben werden muss, versuchen Sie nicht, es selber zu entfernen. Dabei besteht die Gefahr von Verletzungen oder Vebrennungen. Schalten Sie das Gerät sofort aus und wenden Sie sich an Ihren Panasonic-Fachhändler.

Beim Zugriff auf Innenteile des Geräts zum Beheben von Papierfehleinzug usw. immer darauf achten, nicht heiße Stellen zu berühren; sonst besteht die Gefahr von Verbrennungen.

Sonstiges

- Beim Beheben eines Papierstaus oder einer anderen Störung das geeignete Verfahren entsprechend der Bedienungsanleitung befolgen.

Für Ihre Sicherheit

⚠ ACHTUNG

VerbrauchsmaterialienSchutzmaßnahmen

Verwenden Sie immer nur Batterien des vorgeschriebenen Typs.

Stellen Sie sicher, dass die Batterien mit richtiger Polung eingelegt sind. Falsch eingelegte Batterien können bersten oder leck werden, was zu Bränden oder Verletzungen führen kann.

Sonstiges

- Die Maschine hat eine eingebaute Schaltung zum Schutz gegen Stromspitzen durch Blitzschlag. Falls in der Nähe ein Gewitter mit Blitzschlägen auftritt, sorgen Sie für ausreichenden Abstand vom Gerät und berühren Sie das Gerät nicht, bevor das Gewitter beendet ist.
- Wenn Sie Flackern oder verzerrte Bilder oder Rauschen in Audio/Video-Geräten in der Nähe feststellen, kann es sein, dass die Maschine elektromagnetische Störungen erzeugt. Schalten Sie sie aus, und wenn die Störungen verschwinden ist die Maschine die Ursache der Störungen. Führen Sie das folgende Verfahren aus, bis die Störungen beseitigt sind.
  - Die Maschine und das Fernsehgerät und/oder Radio weiter voneinander entfernt aufstellen.
  - Die Maschine und das Fernsehgerät und/oder Radio anders aufstellen oder ausrichten.
  - Ziehen Sie den Netzstecker der Maschine, von Fernsehgerät und/oder Radio ab und stecken sie in Steckdosen ein, die zu getrennten Stromkreisen gehören.
  - Die Fernseh- und/oder Rundfunkantennen und -kabel anders ausrichten, bis die Störungen aufhören. Bei einer Außenantenne den örtlichen Elektriker um Unterstützung bitten.
  - Verwenden Sie eine Koaxkabelantenne.

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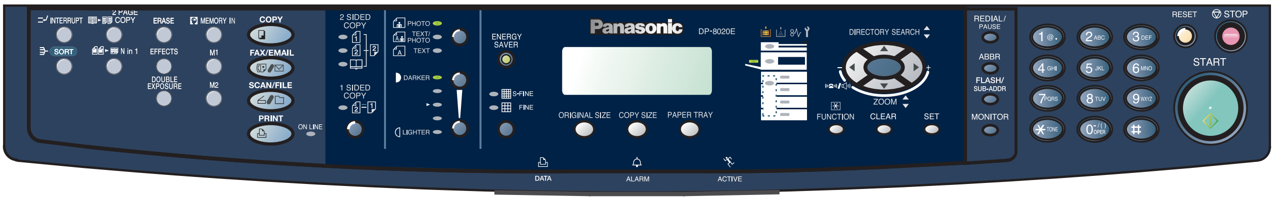
1 Specifications

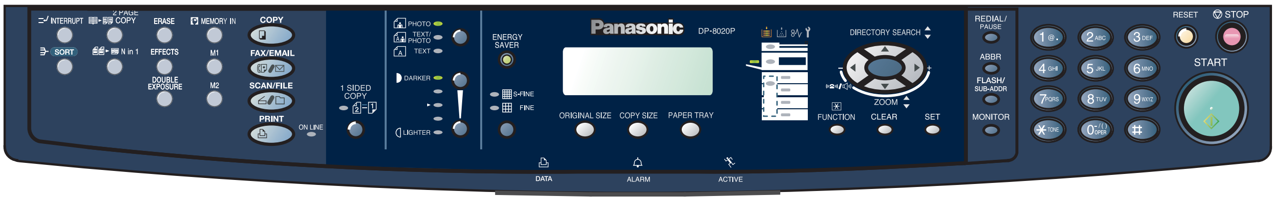
1.1. Control Panel

DP-8020 Series for PU (USA/Canada, etc.)

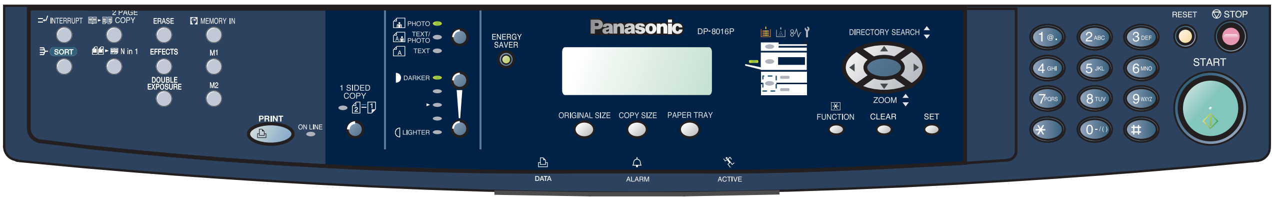
DP-8020E


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
COPY
SORT
N in 1
EFFECTS
M1
FAX/EMAIL
DOUBLE EXPOSURE
M2
SCAN/FILE
PRINT
ON LINE
2 SIDED COPY
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
S-FINE
FINE
Panasonic
DP-8020E
DIRECTORY SEARCH
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
ZOOM
FUNCTION
CLEAR
SET
REDIAL/PAUSE
ABBR
FLASH/SUB-ADDR
MONITOR
RESET
STOP
START
DATA
ALARM
ACTIVE

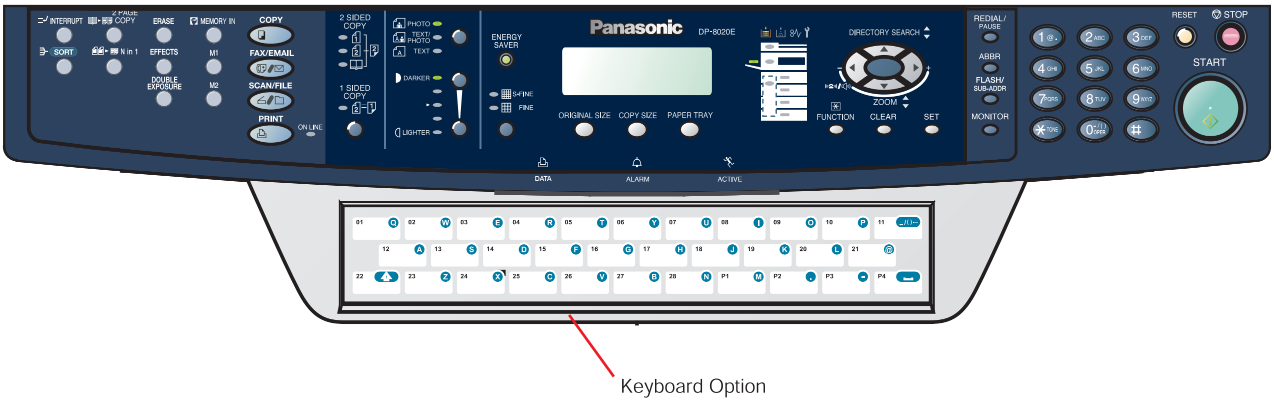
DP-8020P


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
COPY
SORT
N in 1
EFFECTS
M1
FAX/EMAIL
DOUBLE EXPOSURE
M2
SCAN/FILE
PRINT
ON LINE
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
S-FINE
FINE
Panasonic
DP-8020P
DIRECTORY SEARCH
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
ZOOM
FUNCTION
CLEAR
SET
REDIAL/PAUSE
ABBR
FLASH/SUB-ADDR
MONITOR
RESET
STOP
START
DATA
ALARM
ACTIVE

DP-8016P


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
SORT
N in 1
EFFECTS
M1
DOUBLE EXPOSURE
M2
PRINT
ON LINE
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
Panasonic
DP-8016P
DIRECTORY SEARCH
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
ZOOM
FUNCTION
CLEAR
SET
RESET
STOP
START
DATA
ALARM
ACTIVE

OPTIONS (DP-8020E/8020P only)


Panasonic
DP-8020E
Keyboard Option

Note1:

1. DP-8020P is not available for USA and Canada.
2. Model availability may differ as per destination. Please ask your sales company for details.

Note2:

LCD Display Brightness Adjustment

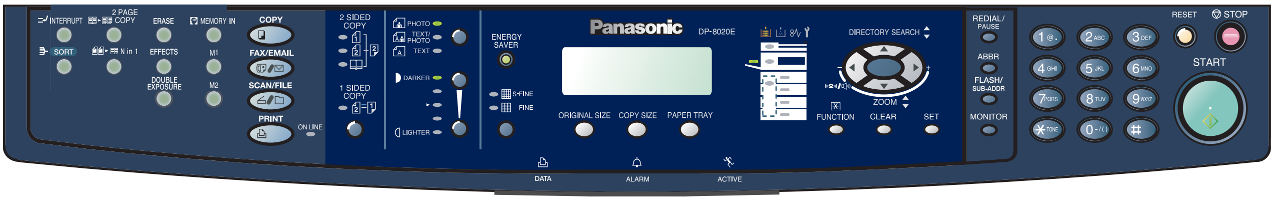
To adjust the brightness of the LCD display, press and while holding down the "**CLEAR**" key, keep pressing the "**ORIGINAL SIZE**", or the "**COPY SIZE**" key until the desired brightness is achieved.

ORIGINAL SIZE: Dimmer

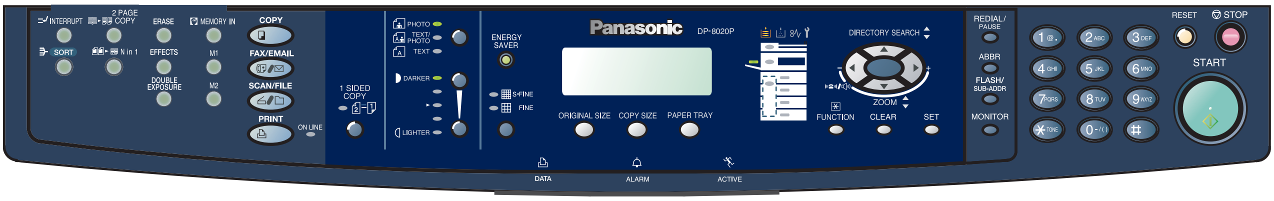
COPY SIZE : Brighter

DP-8020 Series for Other Destinations

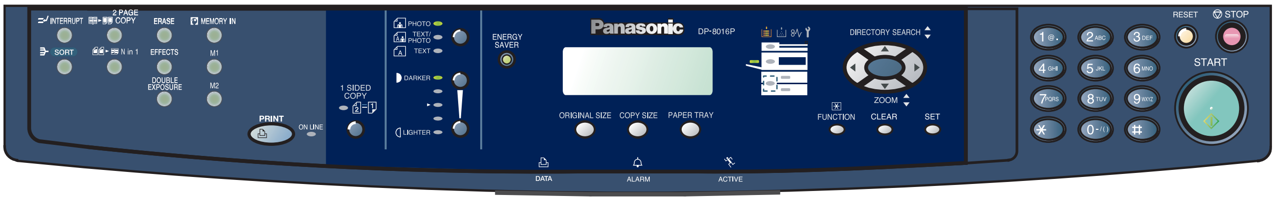
DP-8020E


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
COPY
SORT
N in 1
EFFECTS
M1
FAX/EMAIL
DOUBLE EXPOSURE
M2
SCAN/FILE
PRINT
ON LINE
2 SIDED COPY
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
S-FINE
FINE
Panasonic
DP-8020E
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
DIRECTORY SEARCH
ZOOM
FUNCTION
CLEAR
SET
REDIAL/PAUSE
ABBR
FLASH/SUB-ADDR
MONITOR
RESET
STOP
START
DATA
ALARM
ACTIVE

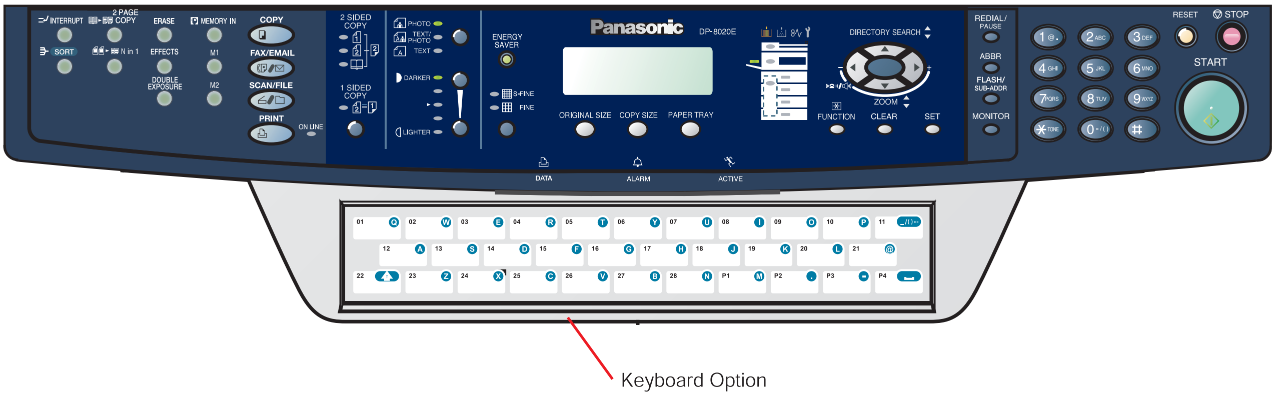
DP-8020P


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
COPY
SORT
N in 1
EFFECTS
M1
FAX/EMAIL
DOUBLE EXPOSURE
M2
SCAN/FILE
PRINT
ON LINE
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
S-FINE
FINE
Panasonic
DP-8020P
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
DIRECTORY SEARCH
ZOOM
FUNCTION
CLEAR
SET
REDIAL/PAUSE
ABBR
FLASH/SUB-ADDR
MONITOR
RESET
STOP
START
DATA
ALARM
ACTIVE

DP-8016P


INTERRUPT
2 PAGE COPY
ERASE
MEMORY IN
SORT
N in 1
EFFECTS
M1
DOUBLE EXPOSURE
M2
PRINT
ON LINE
1 SIDED COPY
PHOTO
TEXT/PHOTO
TEXT
DARKER
LIGHTER
ENERGY SAVER
Panasonic
DP-8016P
ORIGINAL SIZE
COPY SIZE
PAPER TRAY
DIRECTORY SEARCH
ZOOM
FUNCTION
CLEAR
SET
RESET
STOP
START
DATA
ALARM
ACTIVE

OPTIONS (DP-8020E/8020P only)


Panasonic
DP-8020E
Keyboard Option

Note:

Model availability may differ as per destination. Please ask your sales company for details.

1.2. Specifications Table

1.2.1. Copy Function

Items		Description			Remarks
		DP-8020E	DP-8020P	DP-8016P	
Basic Specifications					
1	Type	Desktop			
2	Platen	Fixed			
3	Original Position				
	Platen	Left / Rear			
	ADF / i-ADF	Left / Center			
4	Recording Paper Path	Center			
5	Face Up / Face Down	Face Down			
6	Drum	Organic Photo Conductor (OPC)			
7	Copy Process	Dry Electrostatic System			
8	Developing Process	Dry Dual Components			
9	Toner Recycle	No			
10	Fusing System	Heat & Pressure			
11	Max Original Size	Ledger (11 x 17 in) / A3 (297 x 420 mm)			
12	Paper Size				
	Paper Tray	LDR, LGL, LTR, LTR-R, INV-R			For USA and Canada
		A3, A4, A4-R, A5, A5-R, B4, FLS			For EU FLS = 8 x 13 in, 8.5 x 13 in
		A3, A4, A4-R, B4, B5, B5-R			For Other Destinations
	Bypass Tray	LDR, LGL, LTR, LTR-R, INV-R			For USA and Canada
		A3, A4, A4-R, A5-R, B4, FLS			For EU FLS = 8 x 13 in, 8.5 x 13 in
		A3, A4, A4-R, B4, B5, B5-R			For Other Destinations
	Bypass Tray (Envelope)	#10 (4.1 x 9.5 in)			For USA and Canada
		DL (4.3 x 8.7 in)			For EU
13	Paper Weight				
	Paper Tray	16-24 lb (60 - 90 g/m2)			
	Bypass Tray	15-34 lb (55 - 133 g/m2)			
	ADU	17-24 lb (64 - 90 g/m2)			For DP-8020E
14	Warm-up Time	Less than 30 sec			68 °F (20 °C)
15	First Copy Time	Less than 6.9 sec			From Platen, Letter/ A4 Portrait,1st Paper Tray. Period between Start Key is pressed and Paper ejected to the Exit Tray. When LSU is ready.
16	Copy Speed				
	Ledger	11 cpm		9 cpm	From Platen, 1st Paper Tray, and Paper ejected to the Exit Tray, LSU is ready, and Continuous Copy.
	A3	11 cpm		10 cpm	
	Legal / B4 / FLS	13 cpm		11 cpm	
	Letter-R / A4-R	16 cpm / 15 cpm		13 cpm	
	Letter / A4	20 cpm		16 cpm	
	Invoice-R / A5-R	20 cpm		16 cpm	

Items			**Description**			**Remarks**
			DP-8020E	**DP-8020P**	**DP-8016P**	
17 Zoom						
	Enlargement		Selected Original size / Copy size			
	Reduction		Selected Original size / Copy size			
	Zoom		50 - 200%			1% Step
18 Paper Feed			Front Loading Universal Paper Tray			
	Paper Tray					
		Capacity	550 sheets x 1			LTR / A4 : 20 lb (75 g/m2)
		Auto Size Setting	No			Control Panel Selectable
		Low Level Warning	Empty Only			
	Bypass Paper Tray					
		Capacity	50 sheets			LTR / A4 : 20 lb (75 g/m2)
		Auto Size Setting	Yes			
	Paper Capacity (Std. Configuration)		600 sheets			Paper Tray 1 (Std) + Bypass Paper Tray
19 Multi Copy Range			999 sheets			
20 Gradation						
	Text		Bi-Level			
	Text / Photo		256 steps			Halftone by Error Diffusion
	Photo		256 steps			
21 Resolution			600 dpi			Scanning and Printing.
22 Standard Sorting Memory Size			16 MB			
23 Standard Page Memory Size			32 MB			
24 Exit Tray Capacity			Standard: 250 sheets			
25 Color			No			
26 Dimensions						
	(W x D x H)		22.0 x 21.9 x 18.1 in (558 x 557 x 460 mm)			H: To Platen Glass.
			33.2 x 24.6 x 24.5 in (844 x 624 x 623 mm)			Includes ADF / Bypass Paper Tray.
27 Operating Space						
	(W x D)		33.2 x 22.2 in (844 x 565 mm)			Includes Bypass Paper Tray.
	Weight	DP-8020E	95.46 lb (43.3 Kg)			For PU (USA/Canada, etc.) *DP-8020P is not available for USA and Canada
		DP-8020P*/ 8016P/	93.26 lb (42.3 Kg)			
		DP-8020E	98.33 lb (44.6 Kg)			For EU and Other Destinations
		DP-8020P/ 8016P	96.12 lb (43.6 Kg)			

Items		Description			Remarks
		DP-8020E	DP-8020P	DP-8016P	
Options					
1	Paper Feed System				LTR / A4 : 20 lb (75 g/m2)
	550 sheets 2nd Paper Tray	Yes			
	Paper Size Detection	Manual			Control Panel Selectable
	Low Level Paper Warning	Empty Only			
	550 sheets 3rd Paper Tray	Yes		No	
	Paper Size Detection	Manual			Control Panel Selectable
	Low Level Paper Warning	Empty Only			
	550 sheets 4th Paper Tray	Yes		No	
	Paper Size Detection	Manual			Control Panel Selectable
	Low Level Paper Warning	Empty Only			
	Max. Paper Capacity	2, 250 sheets		1, 150 sheets	
2	Stand				
	Stand for 4*-Paper Tray Configuration	Option			Low Stand with Casters **DA1D18C** (For USA and Canada Only) **DA-DA191-PE** (For Other Destinations)
	Stand for 3*-Paper Tray Configuration	Option			Low Stand with Casters **DA1D18C** (For USA and Canada Only) **DA-DA190-PE** (For Other Destinations)
	Stand for 2-Paper Tray Configuration	Option			Mid Stand with Casters **DA1D18B** (For USA and Canada Only) **DA-DA189-PE** (For Other Destinations)
	Stand for 1-Paper Tray Configuration	Option			High Stand with Casters **DA1D18A** (For USA and Canada Only) **DA-DA188-PE** (For Other Destinations)
	Note: The same Stand (DA1D18C) is used for either 3 or 4 Paper Tray Configuration for USA and Canada.				
3	Platen Cover	Option			For USA and Canada
		Standard			For EU and Other Destinations
	Free Stop	Yes			From 30 to 70 degrees.

Items		Description			Remarks
		DP-8020E	DP-8020P	DP-8016P	
4	ADF				
	Single Side Type	Option			
	Original Set	Face Up			
	Scanning Method	Sheet Through			
	Capacity (Originals)	50 sheets			LTR / A4 : 20 lb (75 g/m2)
	SADF Mode	Yes			
	Free Stop	Yes			From 30 to 70 degrees.
5	Inverting ADF (i-ADF)				
	Duplex Type	Option	No		
	Original Set	Face Up			
	Scanning Method	Sheet Through			
	Capacity (Originals)	50 sheets			LTR / A4 : 20 lb (75 g/m2)
	SADF Mode	Yes			Available for single side scanning only.
	Free Stop	Yes			From 30 to 70 degrees.
6	Exit Tray (Inner)				
	Tray Position	Inner			
	Number of Bins	1			
	Face Up / Face Down	Face Down			
	Bin Capacity	250 sheets			
	Multi Tray Function	No			
	Shift Tray Function	No			
7	Finisher	No			
8	Exit Tray (Outer)	No			
9	Automatic Duplex Unit	Standard : DP-8020E			
10	Counter				
	Key Counter Capability	Option			The Harness Kit contains only Harnesses, Bracket and a Screw.
11	Dehumidifier	Option			Supplied as a Service Part.
12	Sorting Image Memory				
	Optional Image Memory 1 (16MB)	Yes			Unit comes standard with 16 MB. 1-Slot available for an Optional Image Memory module.
	Optional Image Memory 2 (64MB)	Yes			
	Optional Image Memory 3 (128MB)	Yes			
13	Hard Disk Drive	Option			Additional Optional Sorting Image Memory (Minimum 16 MB) is required for the Hard Disk Drive to function. (For Tandem, Remote Copy, etc.)

Items			Description			Remarks
			DP-8020E	DP-8020P	DP-8016P	
Features						
1	Automatic Features					
	Auto Magnification Selection		Yes			Using ADF only
	Auto Paper Selection		Yes			
	Auto Paper Tray Selection		Yes			
	Auto Start		Yes			Reservation while Power On Initializing.
	Remote Diagnostic		Yes			Requires the Fax Communication Board (DA-FG180) option or the Internet Fax / E-MAIL Module (DA-NF180) option.
	Machine Stops when Out of Toner		Yes			PPC Function
2	Additional Features					
	Low Level Paper Warning		Empty Only			
	Photo Mode		Yes			256 steps
	Original Detection Release		No			Manually overridden when using the Original Size keys.
	Edit / Effects					
		Book Mode	Yes			
		Edge Mode	Yes			
		Margin Mode	Yes			
		X-Y Zoom	No			
		Stamping / Page Numbering	No			
		Inverse Mode (Negative / Positive)	No			
		Centering Mode	Yes			With Digital Sky Shot
		Image Repeat	Yes			
		Mirror Mode	No			
	Others (Inverting ADF & ADU)					
		2-Page Copy Mode	Yes			LDR → LTR x 2 (A3 → A4 x 2, B4 → B5 x 2)
		2 in 1	Yes			
		4 in 1	Yes			
		6 in 1	No			
		8 in 1	No			
		Booklet Mode	No			Copy from four 1-Sided pages to 1 Booklet Mode sheet.

Items	Description			Remarks
	DP-8020E	DP-8020P	DP-8016P	
Duplex Copy				
1→2	Yes	No		
2→1	Yes			Scanning twice by turning the original.
2→2	Yes	No		
Book→2	Yes	No		
1st Page BLANK	No			1 → 2 / 2 → 1 / 2 → 2
1st Page IMAGE	No			Book → 2
Image Rotation (90 or 270 °)	Yes			
Electronic Sorting	Yes			
Rotation Sorting	Yes			
Insertion Job				
Cover Mode	No			
Page Insertion Mode	No			
OHP Interleave Mode	No			
Presentation Mode	No			
Department Counter	Yes			300 Departments
ADF				
Multi Size Feed	No			
JOB Build and SADF Mode	Yes			
Original Counter	No			
Job Memory	Yes			2 Jobs in Memory
Job Time Display	Yes			
Concurrent Copy	Yes			12 Concurrent Copy Jobs
Tandem Copy Mode	No			
Remote Copy Mode	No			
Scan Once Print Many Mode	Yes			
Job Complete Notice	Yes		No	
Trial Copy Mode	No			
Weekly Timer	No			
Function Mode	Yes			
Interrupt	Yes			
Electronic Counter	Yes			
Digital Sky Shot Mode	Yes			
Double Exposure	Yes			
3 Control Panel				
Display	LCD			20 digits x 2 lines
Status Lamp	Yes			GREEN: Scanning / Printing RED: Alarm / Warning

Items			Description			Remarks
			DP-8020E	DP-8020P	DP-8016P	
Key						
	Original Size		Yes			
	Copy Size		Yes			
	Keypad		Yes			
	Clear		Yes			
	Stop		Yes			
	Start		Yes			
	Energy Saver		Yes			
	Multi Size Feed		No			
	Sort		Yes			
	Function Mode		Yes			
	Original Detection Release		No			
	Interrupt		Yes			
	Reset		Yes			
	One-Touch key		Yes			With Keyboard Option
	Mode Change		Yes			Copier / Printer / NW Scanner / Fax and Internet Fax Mode
LCD Main Indication						
	Message Language (Default)		English (American)			For USA and Canada
			Specified Language			For EU and Other Destinations
	Original Size / Image Indication		Yes (without Image)			
	Paper Size / Image Indication		Yes (without Image)			
	Paper Tray Selection		Yes			
	Selected Paper Tray / Tray Status		Yes			
	Original Mode Selection		Yes			Text / Text-Photo / Photo
	Copy Density Selection		Yes			
	Setting Confirmation		Yes			
	Function Classification		Yes			
	Zoom Magnification		Yes			
	Number of Copies		Yes			
	JOB Build and SADF / Multi Size Feed Mode		Yes			
	Error Code		Yes			
	Finishing		No			
	Warning Indicators		Yes			
		Add Toner	Yes			
		Toner Waste Container Full	Yes			
		Add Paper (No Paper)	Yes			
		Add Paper (Under 50 sheets)	No			

Items	Description			Remarks
	DP-8020E	DP-8020P	DP-8016P	
Paper Jam Indication	Yes			
Paper Jam Location	Yes			
Service Alert Call	Yes			
User Error	Yes			
Machine Error	Yes			
History of Jam Errors	Yes			
4 Main Unit				
Total Counter				
Electronic	Yes			
Mechanical	Yes			Standard for EU. Available as a Service Part for Other Destinations.
Max. Weight of Documents on the Platen Glass	11.02 lb (5 kg)			
ADF with Document Guide	Yes			
Clip Pocket	Yes			
Operating Instructions Pocket	No			
Warning / Caution Label	Specified Language			
5 Optical System				
Original Detection Method	Reflective Photo Sensor Type			
Scanning Method	600 dpi CCD			
Dehumidifier	Yes			Supplied as a Service Part
Mechanical Multi Copy Mode	No			
6 Process System				
Type	Separate OPC Unit and Developer Unit Type			
Toner	10 K			User replacement
Toner Waste Container	10 K			
Drum Life	60 K			
Developer Life	60 K			
Dehumidifier	Yes			Supplied as a Service Part
Manual Add Toner	Yes			Manually adds toner to the developer (up to TDC threshold)

Items	Description			Remarks
	DP-8020E	DP-8020P	DP-8016P	
PM Cycle				
1 PM Cycle				
Major PM	120 K			
Minor PM (Cleaning)	60 K			
Packing Configuration				
1 Packing Dimension	28.5 x 29.7 x 28.6 in (725 x 755 x 726 mm)			For USA, Canada
	29.5 x 31.3 x 29.7 in (750 x 796 x 755 mm)			For China
	28.7 x 29.3 x 25.8 in (730 x 745 x 655 mm)			For EU and Other Destinations
2 Packing Weight	127.77 lb (58 kg)	125.56 lb (57 kg)		For USA and Canada
	143.187 lb (65 kg)	140.98 lb (64 kg)		For China
	112.35 lb (51 kg)	110.14 lb (50 kg)		For EU and Other Destinations
3 Accessories				
Process Unit	Yes			
Developer	No			
Toner	No			
Toner Waste Container	No			
Operating Instructions	Yes			
Power Supply				
1 Power Requirement	99 - 132 VAC 47 - 63 Hz Single phase			120 VAC
	180 - 264 VAC 47 - 63 Hz Single phase			220 - 240 VAC
2 Power Consumption				
Max.Power Consumption				
100 VAC PS	Less than 1.3 KW			
220 VAC PS	Less than 1.3 KW			
Standby				
100 VAC PS	120 W			Turns On the Heater Power.
220 VAC PS	120 W			
Energy Saver				Automatically enters the Sleep or Shutdown Mode after 10 minutes from the Standby or Energy Saver Mode. Manually enters the Energy Saver Mode by pressing the Energy Saver key. Sleep or Shutdown mode is controlled by the General Functions setting.
Power Saver Mode				
100 VAC PS	19.0 W			
220 VAC PS	19.5 W			
Sleep Mode				
100 VAC PS	8.5 W			
220 VAC PS	9.5 W			
Shutdown Mode				
100 VAC PS	1.4 W			Network Function not available
220 VAC PS	1.6 W			

Items		Description			Remarks
		DP-8020E	DP-8020P	DP-8016P	
Ambient Conditions					
1	Temperature	50 - 80 °F / 10 - 30 °C			
2	Relative Humidity	30 - 80% RH			
3	Safety	UL60950-1 / CSA C22.2 No.60950-1			For USA and Canada
		EN60950-1 / IEC60950-1			For EU and Other Destinations
4	Energy Saver	Energy Star Compliant			
5	EMI	Class A computing device in FCC Rules Part 15			For USA and Canada
		Class B EN55022, EN55024, EN61000-3-2, EN61000-3-3, CISPR22			For EU and Other Destinations
6	Lead Free Solder (PbF)	This Product uses Lead Free (PbF) PCBs			Refer to the Parts Manual for details

1.3. Fax, Printer and Internet Fax Functions

1.3.1. Fax Function

Items		**Description**		**Remarks**
		DP-8020E	**DP-8020P**	
Main Specifications				
1	Compatibility	G3		ITU-T Std & Non-Std
2	PSTN Line Port	Yes		1-Line Only
3	Leased Line Port	No		
4	V.24 Line Port	No		
5	Modem Speed	33.6 - 2.4 kbps		T.30/V.34/V.17/V.29/V.27ter
6	Coding Scheme	JBIG/MMR/MR/MH		
7	ECM	Yes		Conforms to ITU-T Rec. T.30 ECM
8	Short Protocol	Yes (B, D)		
9	Transmission Speed	Approx. 2.9 sec		ITU-T Image No. 1 (A4, Std Resolution)
10	Communication Resolution dpi x lpi (pels/mm x lines/ mm)	**Transmission** **Std.** : 203 x 98 (8 x 3.85) **Fine** : 203 x 196 (8 x 7.7) **S-Fine** : 203 x 391 (8 x 15.4) 406 x 391 (16 x 15.4) **600dpi** : 600 x 600 dpi **Reception** **Std.** : 203 x 98 (8 x 3.85) **Fine** : 203 x 196 (8 x 7.7) **S-Fine** : 203 x 391 (8 x 15.4) 406 x 391 (16 x 15.4) **600dpi** : 600 x 600 dpi		600 dpi communication is only possible between T.30 Compliant Panafax, WORKiO, and other T.30 compliant machines.
Scanner Mechanism				
1	Scanning Device	CCD (ADF / Platen)		
2	Scanning Speed (ADF)			
	Resolution	Vertical	Horizontal	LTR / A4, Scanned in Vertical or Horizontal Direction. Excluding Initializing Time and ADF slipping factor.
	Std: 203 x 98 (8 x 3.85) dpi x lpi (pels/mm x lines/ mm)	0.9 / 1.0 sec	0.7 sec	
	Fine: 203 x 196 (8 x 7.7) dpi x lpi (pels/mm x lines/ mm)			
	S-Fine: 406 x 391 (16 x 15.4) dpi x lpi (pels/mm x lines/mm)	1.8 / 2.0 sec	1.4 sec	
	600dpi: 600 x 600	2.8 sec	2.1 sec	
3	Scanning Speed (Platen)			
	Resolution	Vertical	Horizontal	
	600dpi: 600 x 600	2.8 sec	2.1 sec	
4	Scanning Resolution dpi x lpi (pel/mm x lines/ mm)	**Std.** : 203 x 98 (8 x 3.85) **Fine** : 203 x 196 (8 x 7.7) **S-Fine** : 203 x 391 (8 x 15.4) 406 x 391 (16 x 15.4) **600dpi** : 600 x 600 dpi		

Items	Description		Remarks
	DP-8020E	DP-8020P	
5 Document Size (Max.)	ADF: LDR / A3		
6 Effective Scanning Width	LDR (11.5 in) / A3 (292 mm)		
7 A3 size TX/RX	Yes		Conforms to ITU-T A3
8 Reduction XMT	Yes		LDR to LTR / A3 to B4 / A3 to A4 / B4 to A4
9 ADF Capacity	50 sheets		Face-Up, feed from top page LTR / A4 (20 lb / 75 g/m^2)
10 Collation Stack	Yes		Face Down
Printer Mechanism			
1 Recording Method	LP		
2 Recording Speed	23 / 30 ppm (A4 Horizontal)		Recording Speed attained after the 1st copy.
3 Recording Resolution Fax	600 x 600 dpi		
4 Recording Paper Size	Ledger / Legal / Letter / A3 / B4 / A4 / A5		Invoice : Not supported. Ledger size is transmitted as A3 size for N. American models. If A3 is received, approx. 1" of image on both edges are not printed on Ledger size paper.
5 Effective Printing Width	11.4 in (289 mm)		Conforms to ITU-T A3
6 Recording Paper Capacity	600 sheets		Optional max. 2250 sheets LTR / A4 : 20 lb (75 g/m^2)
7 Collation Stack	Yes		Face Down
8 Consumable	Toner Bottle, Developer, OPC Drum		
Fax Memory			
1 Standard Memory	2 MB (120 pages)		Flash ROM, ITU-T Image No.1 (A4, Std Resolution)
2 Optional Memory	4 MB 8 MB		Expansion Flash Memory Card, using ITU-T Image No.1 (A4, Std Resolution)
Dual Operation			
1 Multi Task Operation	Yes		
2 Direct XMT Reserve	Yes		
3 Memory XMT Reserve	Yes		
4 Number of Memory Job Files	Yes		Max. 50 files

Items		Description		Remarks
		DP-8020E	DP-8020P	
Dialing/Telephone Features				
1	One-Touch Keys	28		Requires Optional Keyboard.
2	One-Touch / Program Keys	4		
3	One-Touch Auto Dialers	32		
4	Abbr. Auto Dialers	200		
5	Total Auto Dialers	232		Plus an additional 800 stations available to select from, when the optional Hard Disk Drive (DA-HD18) is installed.
6	Directory Search Dialing	Yes		
7	Max. Tel Number Digits	36		
8	Max. Station Name Characters	15		
9	Full Number Dialing (Buffered Dialing)	Yes		Max. 50 stations
10	Direct Dialing (Monitor Dialing)	Yes		Voice mode
11	Automatic Redialing	Yes		Up to 15 times at 0 to 15 min. intervals
12	Manual Redialing	Yes		Pressing the REDIAL/PAUSE button
13	Line Monitor Speaker	Yes		
14	Chain Dialing (Hybrid Dial)	Yes		In Monitor Dialing mode only
15	Pulse / Tone Dialing	Yes		10 pps / DTMF
16	Pulse to Tone Change	No		
17	Flash Key	Yes		
18	Handset	No		

Items	Description		Remarks
	DP-8020E	DP-8020P	
Transmission Features			
1 Direct Transmission	Yes		
2 Memory Transmission	Yes		Page Retransmission
3 Quick Memory Transmission	Yes		
4 Multi-Station Transmission (Sequential Broadcasting)	Yes		Max. 250 stations
5 Direct Deferred Transmission	No		ADF Deferred Transmission
6 Deferred Transmission	Yes		Max. 50 timers
7 Deferred Multi-Station Transmission	Yes		
8 Priority Direct Transmission	Yes		Priority ADF Transmission
9 Priority Memory Transmission	No		
10 Batch Transmission	Yes		Real Time (up to 5 Files)
11 90 Degree Rotation Transmission	Yes		
12 Cover Sheet	Yes		
13 Confidential Mail Box	No		
14 Multi-Copy Transmission	No		
15 Memory Back-Up	Yes		**FAX** : Back-up with Flash Memory. **Copy / Printer** : No Back-up with D-RAM
16 Duplex Scanning	Yes		With Inverting ADF (i-ADF)
Reception Features			
1 Substitute Reception	Yes		
2 Fixed Reduction	Yes		LTR/A4/LGL: 70 - 100% (in 1% Steps), Top & Left Alignment
3 Auto Reduction	Yes		LTR/A4/LGL: 70 - 100% (in 1% Steps), Top & Left Alignment
4 Overlap Printing	Yes		Page End Approx. 0.51 in (13 mm)
5 Receive to Memory	Yes		
6 Distinctive Ring Detector (DRD)	No		
7 90 Degree Rotation Reception	Yes		
8 Duplex Printing	Yes		

Items		Description		Remarks
		DP-8020E	DP-8020P	
Polling				
1	Polling	Yes		
2	Turnaround Polling	No		
3	Multi-Station Polling	Yes		Max. 250 stations
4	Deferred Polling	Yes		Max. 50 timers
5	Deferred Multi-Station Polling	Yes		Max. 50 timers / 250 stations
6	Direct Polling Tx	No		
7	Memory Polling Tx	Yes		1 File
8	Preset Polling Password	Yes		
9	Temporary Polling Password	Yes		
10	Continuous Polling	Yes		
Convenience				
1	Panel Display	LCD		
2	Voice Contact	No		
3	Edit File Mode	Yes		With View Mode
4	Incomplete File Save	Yes		With View Mode
5	Automatic Cover Sheet	Yes		
Certainty				
1	Verification Stamp	Yes		
2	Header / Total Page Print	Yes		
3	Transaction Journal	Yes		200 Transactions / with View Mode
4	Comm. Journal	Yes		With Image Data
5	Last Ind. XMT Journal	Yes		
List Printouts				
1	One-Touch List	-		
2	ABBR. No. List	-		
3	Program List	Yes		
4	Address Book Search List	Yes		Auto Dialer List
5	Fax Parameter List	Yes		
6	File List	Yes		With View Mode
7	Ind. XMT Journal	Yes		
8	Directory Sheet	No		

Items	Description		Remarks
	DP-8020E	DP-8020P	
Identifications			
1 Logo	Yes		25 Characters
2 Multiple Logo	No		
3 Character ID	Yes		16 Characters
4 Numeric ID	Yes		20 Digits
Special Communications			
1 Password XMT / RCV	No		
2 Selective Reception	No		TSI Check
3 Relay XMT Request	No		
4 Relay XMT Center	No		
5 Confidential XMT / Polling	No		
6 Confidential Center	No		
7 Mailbox XMT / Polling	No		
8 Mailbox Center	No		
9 File XMT	No		
10 Fax Forward	Yes		Received File Transfer (Only with Internet Fax Option)
11 Sub-Address XMT	Yes		T. Routing
12 Sub-address RCV	No		
13 OMR-XMT	No		
Others			
1 Fax Access Code	Yes		
2 PIN Code Access	Yes		For USA and Canada only
3 Intelligent Redial (AI)	Yes		5 Files
4 Department Code	Yes		300 Departmental Codes
5 Power Saver Mode	Yes		
6 Self Diagnostic Function	Yes		
7 Remote Diagnostic Function	Yes		
8 Check & Call Function	Yes		
9 V.24 / Encryption Interface	No		

1.3.2. Printer Function

Items		Description		Remarks
		DP-8020E/P	DP-8016P	
Interface				
1	Centronics Parallel I/F	No		
2	LAN (Network)	Ethernet 10Base-T/ 100Base-TX		
3	USB Port	Yes		USB
4	IEEE-1394	No		
Printer Function				
1	Printing Size (Paper Tray)	Letter / Legal / Ledger / A3 / A4 / A5 / B4 / B5 / FLS1 / FLS2 / Invoice / 8K / 16K		8K / 16K = China only
2	Printing Size (Multi-Purpose Tray)	Additionally; Envelope #10 / Envelope DL / Custom Size (PCL / PS only)		8K / 16K = Tray1 only
3	Stapling	No		
4	Printing Resolution (dpi)	300 x 300 600 x 600 1200 (Equivalent) x 600 (PCL / PS only)		
5	Interface	USB / Ethernet		
6	OS	Win 98 / Me / Win NT 4.0 / Win 2000 / XP / Windows Server 2003 / MAC 8.6-10.4		MAC 8.6-10.4 is PS only.
7	Printer Work Memory Size	20 MB		Not expandable
8	GDI	Yes		
9	PDL (PCL6)	Yes		Requires Optional PCL6 Emulation Kit.
10	PDL (PS3)	Yes	No	Requires Optional PS / PCL6 Emulation Kit
11	Duplex Printing	Yes	No	DP-8020E only. Custom Size/Post Card Size is not available.
12	Collation Stack	Yes		
13	Status Monitor			
	Network	Yes		
	USB	No		
14	Network Printing	Yes		
15	Smoothing	Yes		
16	Applicable PC	IBM PC, AT or Compatible, MAC		MAC is PS only.
17	Multi-Task Operation			
	Printing while Fax-XMT from Memory	Yes		
	Printing while Fax-RCV into Memory	Yes		
	Fax-XMT from Memory while Printing	Yes		
	Fax-RCV into Memory while Printing	Yes		

Items		Description		Remarks
		DP-8020E/P	DP-8016P	
	18 Output to separate tray for Printing, Fax, Copy	No		
	19 Font	Yes		Requires Optional PCL6 or PS / PCL6 Emulation Kit
	20 Mailbox	Yes		Requires Optional HDD Unit. Max. 100 Users. Max. 20 mailboxes for each User ID
	21 Secure Mailbox	Yes		Requires Optional HDD Unit. Max. 100 Users. Max. 20 mailboxes for each User ID

1.3.3. Network Scanner Function

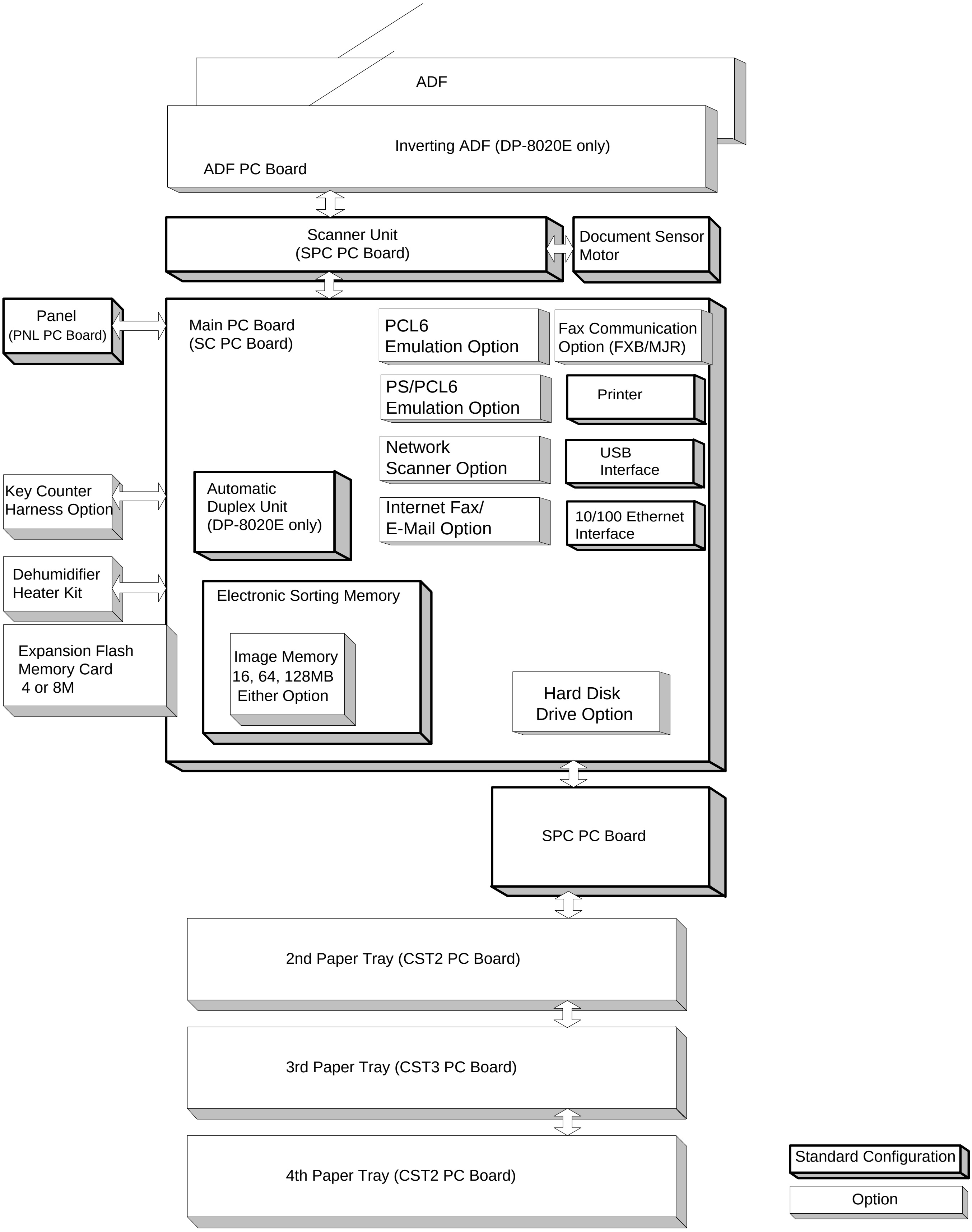
Items		Description		Remarks
		DP-8020E	**DP-8020P**	
Interface				
1	Centronics Parallel I/F	No		
2	LAN (Network)	Ethernet 10Base-T/ 100Base-TX		
3	USB Port	No		
4	IEEE-1394	No		
Network Scanning Function				
1	Scanning Device	CCD (i-ADF / ADF / Platen)		
2	Scanning Speed (ADF / I-ADF)	600 x 600 : 2.1 sec 300 x 300 : 1.1 sec 150 x 150 : 1.1 sec		Letter / A4
3	Halftone	256 Halftone shades		With Error Diffusion
4	Max. Document Size	Ledger, A3		
5	Scanning Resolution (dpi)	600 x 600 300 x 300 150 x 150		Selectable, 600 dpi Optical Scanner
6	OS	Win 98 / Me / Win NT 4.0 / Win 2000 / XP / Windows Server 2003		
7	2-Sided Scanning	Yes		With i-ADF.
8	File Format	Mult-page TIFF / PDF		TIFF can also be converted to PDF with the PDMS Software
9	Completion Notice	Yes		Auto Pop-up on the PC Screen (requires Network Status Monitor - installed with PDMS Software)
10	Protocol	TCP/IP, Non-Std		
Network Address Features				
1	One Touch Address Keys	32		Requires Optional Keyboard. Shared with Fax/Internet Fax One Touch Address, 32 in Total
2	Abbr. Address Numbers	60		Independent for Network Scanner

1.3.4. Internet Fax Function

Items		Description		Remarks
		DP-8020E	DP-8020P	
Main Specifications				
1	Communication Protocols	SMTP / POP3 / MIME		
2	Max. Modem Speed	NA		
3	Coding Scheme	JBIG/MMR/MR/MH		
4	File Format	TIFF / PDF		Selectable PDF file is only available if sending to PC (Network Scanner).
5	Line Interface	RJ-45		Ethernet LAN
Scanner Mechanism				
1	Max. Document Size	Ledger, A3		
2	Effective Scanning Width	11.4 in (289 mm)		
3	Scanning Resolution dpi x lpi (pel/mm x lines/mm)	**Std.** : 203 x 98 (8 x 3.85) **Fine** : 203 x 196 (8 x 7.7) **S-Fine** : 203 x 391 (8 x 15.4) 406 x 391 (16 x 15.4) **600dpi** : 600 x 600 dpi		LAN: 600 dpi, 16 x 15.4 Scanning Resolution is available with Parameter setting
Printer Mechanism				
1	Printing Resolution	600 dpi		
2	Effective Recording Width	11.4 in (289 mm)		
Transmission Features				
1	Multi-Task Operation	Yes		Simultaneous operation of G3 Fax and LAN is available.
2	Memory Transmission	Yes		
3	Sequential Multi-Station Transmission	Yes		
4	Simultaneous Multi-Station Transmission	Yes		Max. 250 stations (200 Address Book + 50 Full Number Dialing)
5	Sender Selection	Yes		
6	G3 / Email Mixed Broadcasting	Yes		
7	Deferred Transmission	Yes		
8	Fax Forward	Yes		Received File Transfer, only with Internet Fax Option
9	Sub-address RCV	Yes		Inbound Routing, only with Internet Fax Option
10	Mail Header			
	Email Header Print Selection	Yes		All or From / To / Subject only
	Subject Line	Random Entry		

Items			Description		Remarks
			DP-8020E	DP-8020P	
LAN Features					
	1	Internet Fax Communication	Yes		A3 Communication is available with Parameter setting.
	2	Internet Mail Reception	Yes		
	3	Internet Fax Server Features			
		Internet Fax Relay XMT	Yes		Internet Fax → Internet Fax → G3FAX
		Email Relay MXT	Yes		PC → Internet Fax → G3FAX
		Received Fax / Email Forward	Yes		Local print available
		PC to FAX Transmission	No		
		Inbound Routing	Yes		Using Sub-Address. Local print available
		Phone Book Registration from PC	Yes		Via Email
	4	Internet Fax Parameters Registration via Email	Yes		
	5	Internet Delivery Confirmation	Yes		With MDN
	6	Network Scanning	Yes		600 dpi
	7	Network Printing			
		LPR / LPD	Yes		600 dpi
		GDI	Yes		600 dpi
		PDL	Yes		Requires Optional PCL6 or PS Emulation Kit
	8	DHCP Client	Yes		
	9	LDAP	Yes		Lightweight Directory Access Protocol
	10	TIFF Viewer	Yes		Selectable, PDMS / TIFF Viewer
Certainty					
	1	Comm. Journal (w / Image)	Yes		
ID					
	1	Email Address	Yes		

1.4. System Combination


ADF
Inverting ADF (DP-8020E only)
ADF PC Board
Scanner Unit
(SPC PC Board)
Document Sensor
Motor
Panel
(PNL PC Board)
Main PC Board
(SC PC Board)
PCL6
Emulation Option
Fax Communication
Option (FXB/MJR)
PS/PCL6
Emulation Option
Printer
Network
Scanner Option
USB
Interface
Key Counter
Harness Option
Automatic
Duplex Unit
(DP-8020E only)
Internet Fax/
E-Mail Option
10/100 Ethernet
Interface
Dehumidifier
Heater Kit
Electronic Sorting Memory
Expansion Flash
Memory Card
4 or 8M
Image Memory
16, 64, 128MB
Either Option
Hard Disk
Drive Option
SPC PC Board
2nd Paper Tray (CST2 PC Board)
3rd Paper Tray (CST3 PC Board)
4th Paper Tray (CST2 PC Board)
Standard Configuration
Option

1.5. Options List

■ Options

Option Name	Option Number	Remarks
Printer Controller Module (PCL)	DA-PC820	Printer Controller for PCL6*
Multi Page Description Language Controller Module (PCL/PostScript)	DA-MC820	Printer Controller for PCL6/PS3* For DP-8020E/8020P* only
Fax Communication Board	DA-FG180	G3 Fax Communication
Keyboard Option	DA-KB180	
Hard Disk Drive Unit	DA-HD18	Additional Optional Sorting Image Memory (Minimum 16 MB) is required for the Hard Disk Drive to function. (For additional 800 address book, etc.)
Expansion Board	DA-EM600	F-ROM Board (8 MB)
Expansion Flash Memory Card, 4 MB	UE-410047	Additional Memory for Fax / Internet Fax
Expansion Flash Memory Card, 8MB	UE-410048	
Image Memory (16MB)	DA-SM16B	For Electronic Sorting
Image Memory (64 MB)	DA-SM64B	
Image Memory (128MB)	DA-SM28B	
Accounting Software	DA-WA10	For Accounting Function
Platen Cover	DA-UC200	Available in Specified Destinations
Automatic Document Feeder	DA-AS181	
Inverting Automatic Document Feeder	DA-AR202	For DP-8020E
2nd / 4rd Paper Tray	DA-DS184	4th Paper Tray is for DP-8020E only.
3rd Paper Tray	DA-DS185	3rd Paper Tray is for DP-8020E only.
Deluxe Stand (High)	DA1D18A	For USA and Canada **Note:** The same Deluxe Stand (DA1D18C) is used for either 3 or 4 Paper Tray Configuration.
Deluxe Stand (Mid)	DA1D18B	
Deluxe Stand (Low)	DA1D18C	
Stand (1-Paper Tray Configuration)	DA-DA188-PE	Available in Specified Destinations
Stand (2-Paper Tray Configuration)	DA-DA189-PE	
Stand (3-Paper Tray Configuration)	DA-DA190-PE	
Stand (4-Paper Tray Configuration)	DA-DA191-PE	
Key Counter Harness Kit	DA-KH180	

Note:

1. PCL6 is a Page Description Language of the Hewlett-Packard Company.
2. PS3 is a Page Description Language of the Adobe Systems Company.
3. Availability may differ as per destination. Please ask your sales company for details.

■ Supplies

Part Name	Part Number	Remarks
Toner	DQ-TUJ10K-PU	For PU (USA/Canada, etc.), 10K
	DQ-TUJ10K-PK	For China, 10K
	DQ-TU10J-PB	For EU and Other Destinations, 10K
OPC Drum	DQ-H60J	60K
Developer	DQ-Z60J	60K

Note:

Availability may differ as per destination. Please ask your sales company for details.

2 Maintenance, Adjustments and Check Points

2.1. Preventive Maintenance

Preventive maintenance is performed at specific intervals, and consists of machine cleaning, and parts replacement.

It is essential to perform these service activities properly, and at the specified intervals for customer satisfaction.

The purpose of this service is to maintain machine performance, and image quality.

- You should prepare the replacement parts, and cleaning tools beforehand.
- After completing the preventive maintenance, discard the used parts, and packaging in accordance with local regulations, and clean the surrounding area.
- Before servicing the equipment, turn the power switches Off, and disconnect the power cord from the wall outlet.
- Before using solvents such as IPA (Isopropyl alcohol), put on rubber gloves, and wear eye protection.

1 Timing

- Perform the preventive maintenance in accordance with the Preventive Maintenance Check List (refer to 2.4)

2 Cleaning the Rollers

- Rollers should be cleaned with water, and a soft cloth.
- Use the IPA (Isopropyl Alcohol) sparingly.

3 Disassembly and Adjustment Precautions

CAUTION!

Turn the Power Switch on the Right Side of the machine to the OFF position, and then unplug the AC Power Cord from the wall outlet before disassembling the machine. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord.)

- After taking the unit apart, do not attempt to operate the machine.
- When operating the machine with covers removed, be careful, and avoid clothing from being caught by moving components.
- While the electricity is applied to the unit, do not connect nor disconnect the connectors on any PC Board.
- When handling the drum, follow the precautions listed in section 2.3.
- Ensure to use correct screws.
- Use toothed lock washers for the installation of ground wires to ensure electrical continuity.
- To reassemble, reverse the sequence of disassembly, unless otherwise specified.
- Blown fuses should only be replaced with fuses of the same specified rating.

4 Laser Handling Precautions

The optical laser system employed by this photocopier is completely sealed by a protective housing, and an external cover. Therefore, the laser beam will not stray or leak during photocopying operation.

However, when servicing the photocopier, take the following precautions:

1. Do not insert any screwdrivers, or other tools that have high reflective properties into the laser's path.
2. Before servicing the machine, remove watches, rings, or other metallic objects that you may be wearing. (This is to avoid the danger of the laser striking the eye by reflecting off the metallic objects being worn.)
   Since the laser beam cannot be seen with the naked eye, for maximum safety, please follow the above precautions.

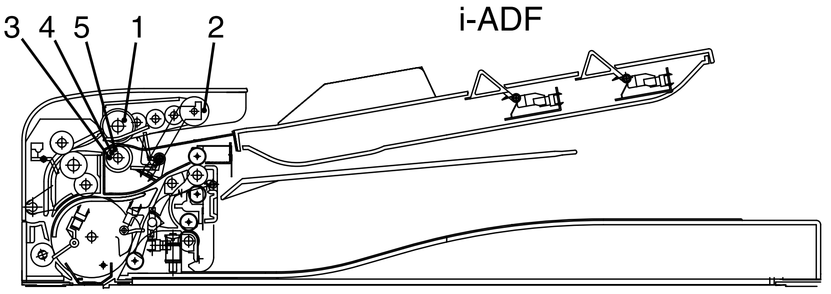
2.2. Required Tools

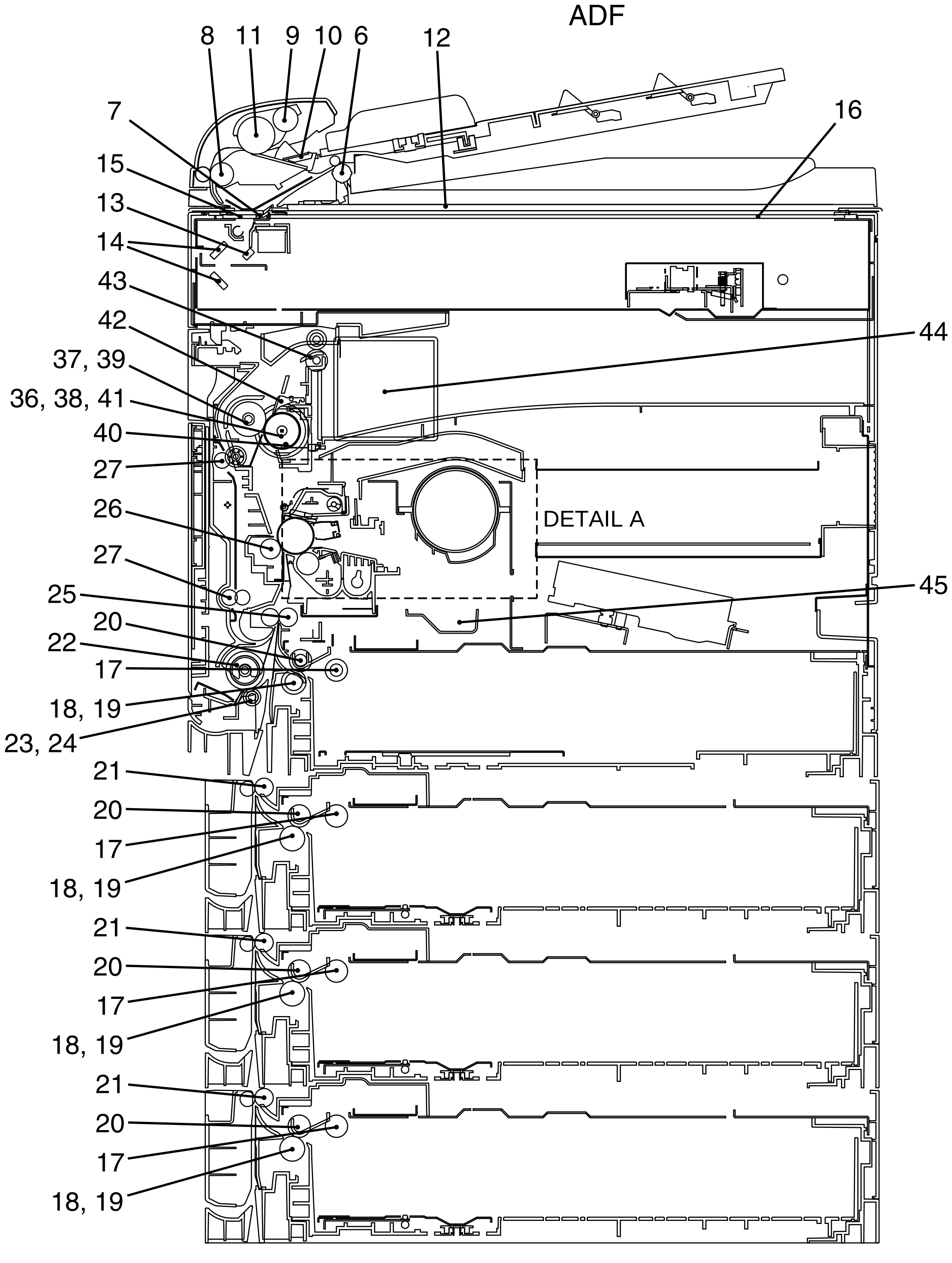
No.	Tools	No.	Tools
1	Soft Cloth	7	Pliers
2	Isopropyl Alcohol	8	Cotton Swab
3	Phillips Screwdriver (#2)	9	Brush
4	Stubby Phillips Screwdriver (#2)	10	KS-660 - Conductive Grease (Available from Shin-Etsu Silicones of America, Inc. URL: http://www.shinetsusilicones.com)
5	Slotted Screwdriver (3/32 in)	11	Molykote EM-50L Grease (Available from Dow Corning, URL: http://www.dowcorning.com)
6	Tweezer		

2.2.1. Preventive Maintenance Method

No.	Part Description	Important Action	Comments
1	Memory Data	Check	1. Print the RAM DATA for reference, and as a precaution. 2. After completing the task(s), print, and compare the RAM DATA with the previously printed one.
2	Auto Document Feeder (ADF)	Check & Clean	1. Clean the Rollers, and Separation Rubber with a Wet soft cloth (Water). **Note:** For stubborn toner accumulation, wipe with a soft cloth saturated with Isopropyl Alcohol first, then follow up with a soft cloth saturated with water.
3	Scanner Unit	Check & Clean	1. Clean the Scanning Glass, or White Reference Sheet with Isopropyl Alcohol when required.
4	Transmitter Unit	Check & Clean	1. Remove any foreign obstacles. 2. Clean the Rollers with a Wet soft cloth (Water).
5	Mirrors	Check & Clean	1. Do not touch the surface of the Mirrors with your hands. 2. Clean any dirt, or fingerprints with a Dry Cotton Swab. **Note:** Do not use any type of Alcohol.
6	Inspection Items	Check	1. Check the Harnesses. 2. Check the Connectors. 3. Check the Screws. If required, replace consumable parts.
7	Gears, Rollers Shafts	Check & Grease	1. Check, and grease the required Gears, and Shafts.
8	Timing Belts	Check & Clean	1. Check for belt looseness, or abrasion. 2. Adjust the Idle Pulley.

2.3. Preventive Maintenance Points




ADF
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18, 19
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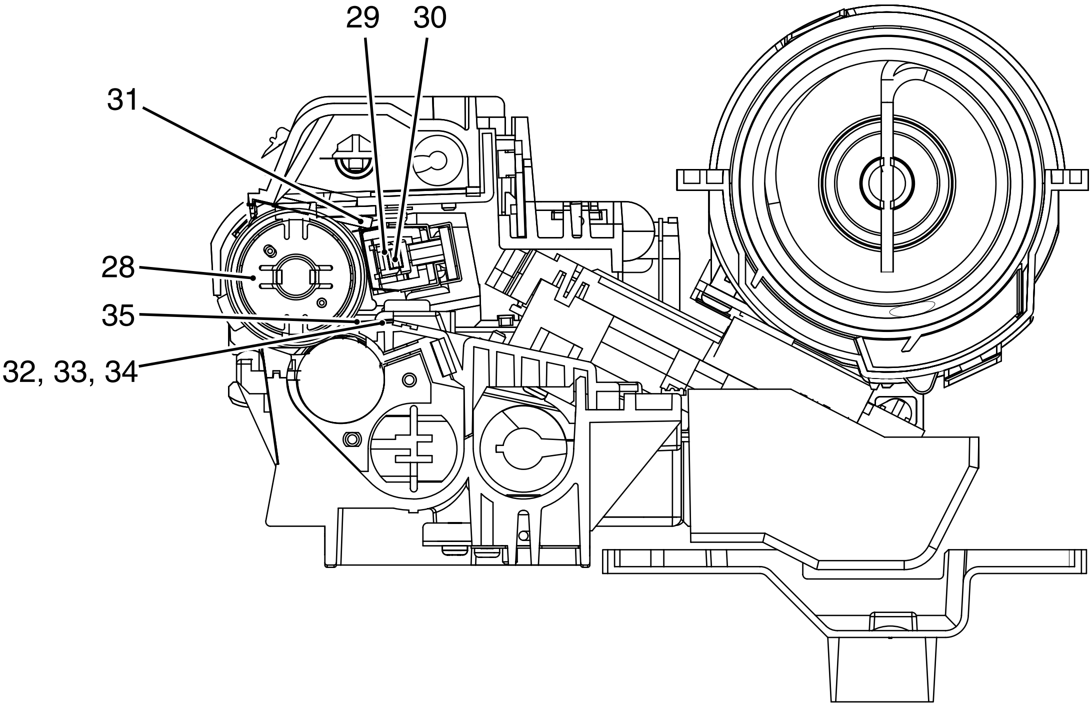
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DETAIL A

2.4. Preventive Maintenance Check List

The chart outlined below is a general guideline for maintenance.

No.	Mechanical Parts	Ref. No.	Cleaning		Replacement/Adjustment		Ref. Counter
			Cycle (Sheet)	Method	Cycle (Sheet)	Procedure	
	i-ADF Unit						
1	ADF Roller	2314	60K	Water[1]	120K	Refer to 2.2.1.of the Service Manual	F7-08
2	Pre Feed Roller	2018	60K	Water[1]	120K		
3	Separation Roller	2509	60K	Water[1]	120K		
4	Torque Limiter Bushing	2510	60K	Water[1]	120K		
5	Torque Limiter Spring	2511	60K	Water[1]	120K		
	ADF Unit						
6	Exit 1 Roller	1812	60K	Water[1]	-	Refer to 2.2.2.of the Service Manual	F7-08
7	White Sheet	1814	60K	Water[1]	-		
8	Feed Roller	2010	60K	Water[1]	-		
9	Pre Feed Roller	2018	60K	Water[1]	120K		
10	Separation Rubber	2024	-	-	60K		
11	Paper Feed Roller	2001	60K	Water[1]	120K		
12	Scanning Pad	1822	60K	Dry soft cloth	-		
	Scanner Unit						
13	Mirror 1	415	60K	-	-	Refer to 2.2.4.of the Service Manual	F7-04
14	Mirror 2	421	60K	-	-		
15	Platen (L) Glass	106	60K	-	-		
16	Scanning (S) Glass	110	60K	-	-		
	2nd, 3rd & 4th Paper Trays						
17	Pickup Roller	619	60K	Water[1]	120K	Refer to 2.2.10.of the Service Manual	F7-12/-13/-14/-15
18	Separation Roller	629	60K	Water[1]	120K		
19	Torque Limiter 1	690	-	-	120K		
20	Feed Roller	623	60K	Water[1]	120K		
21	Intermediate Roller	3104	60K	Water[1]	-		
	Sheet Bypass						
22	Feed Roller	689	60K	Water[1]	120K	Refer to 2.2.9.of the Service Manual	F7-11
23	Separation Roller	658	60K	Water[1]	120K		
24	Torque Limiter 2	691	-	-	120K		
25	Registration Roller	601	60K	-	-		
	Bias Transfer Unit						
26	Bias Transfer Roller (BTR)	711	60K	Dry soft cloth	120K	Refer to 2.2.8.of the Service Manual	F7-02
27	Duplex Feed Roller	735	60K	Water[1]	-		
	Process Unit						
-	Developer	-	-	-	60K	Refer to 2.2.5.of the Service Manual	F7-10
28	OPC Drum	1403	-	-	60K		F7-06

No.	Mechanical Parts	Ref. No.	Cleaning		Replacement/Adjustment		Ref. Counter
			Cycle (Sheet)	Method	Cycle (Sheet)	Procedure	
29	Charge Corona Case	1444	60K	-	-	Refer to 2.2.5.of the Service Manual	F7-07
30	Charge Wire	1443	10K By Customer	-	60K		
31	Cleaning Blade	1408	-	-	60K		
32	Front Cleaning Felt	1410	-	-	60K		
33	Rear Cleaning Felt	1411	-	-	60K		
34	Cleaning Sponge	1412	-	-	60K		
35	Splash Prevention Sheet	1415	-	-	60K		
	Fuser Unit						
36	Fuser Roller	1115	60K	Water [1]	120K	Refer to 2.2.6.of the Service Manual	F7-02
37	Pressure Roller	1021	60K	Water [1]	240K		
38	Fuser Roller Bushing	1114	-	-	120K		
39	Pressure Roller Bushing	1020	-	-	240K		
40	Thermistor Assembly	1125	60K	Dry soft cloth	120K		
41	Fuser Lamp	1116	-	-	240K		
42	Separator	1109	60K	Dry soft cloth	120K		
43	Exit 2 Roller	1104	60K	Water [1]	-		
	Main Unit						
44	Ozone Filter	825	-	-	240K	Refer to 2.2.13.of the Service Manual	F7-02
45	Toner Spill Tray	1202	60K	-	-		

Note:

1. Wet Cloth represents a soft cloth saturated with water.
   For stubborn toner accumulation, wipe with a soft cloth saturated with Isopropyl Alcohol first, then follow up with a soft cloth saturated with water.
2. The Maintenance Cycle is based on the Counter Information for each individual module.
   To verify the counter information, print the Total Counter List using the Service Mode: F7 - Electronic Counter - 00 (List Print).
3. Cleaning, Replacement, and Adjustment Cycle (Sheet) are based on using Panasonic's recommended standard paper, and supplies. These cycles may vary with the kind of paper used, Paper size, orientation, print duty, continuous/interval print, and/or ambient conditions.

- **Total Counter View Mode on the LCD**

The Total Counter can be displayed on the Panel Display by pressing "**COPY SIZE**", and "**PAPER TRAY**" keys simultaneously in Standby mode for quick reference.

```
TOTAL COUNTER
                         1234
```

- **LCD Display Brightness Adjustment**

To adjust the brightness of the LCD display, press and while holding down the "**CLEAR**" key, keep pressing the "**ORIGINAL SIZE**", or the "**COPY SIZE**" key until the desired brightness is achieved.

ORIGINAL SIZE: Dimmer
COPY SIZE : Brighter

2.5. Resetting the P/M (Preventive Maintenance) Counter

When the machine reaches the preset P/M Cycle, it will show "Call for P/M", or "Replace The Toner Waste Container" on the LCD Display. The PM Counter can be reset by following the procedures below.

2.5.1. "Call for P/M" (Default: 120K)

1. Perform the P/M (Preventive Maintenance). Refer to Section 2.3, and 2.4.
2. Press “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys sequentially to enter the Service Mode.
3. Enter the Copy Service Mode F5-70 (PM Cycle), and change to the desired value.
4. Press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the Service Mode.

2.5.2. "Call for P/M ADF" (Default: Not Set)

1. Perform the P/M (Preventive Maintenance). Refer to Section 2.3, and 2.4.
2. Press “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys sequentially to enter the Service Mode.
3. Enter the Copy Service Mode F5-87 (ADF PM Cycle), and change to the desired value.
4. Press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the Service Mode.

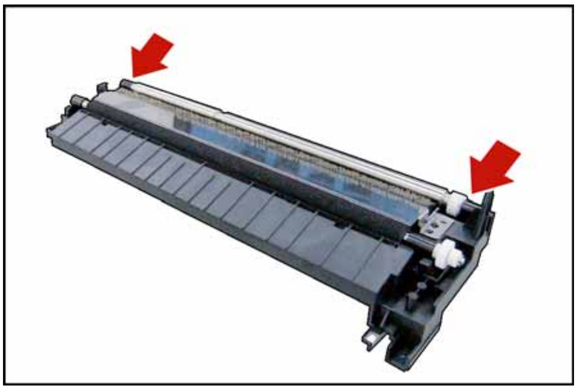
2.5.3. U14 "Replace The Toner Waste Container"

A. Blinking Maintenance, and Toner Waste Container Indicators
Upon detecting that the Toner Waste Container is full, the machine will complete the current job, and stop operating.
A blinking Maintenance, and Toner Waste Container Indicators will appear on the display.
To continue using the machine temporarily while waiting for the Service Technician, press any key (up to 100 additional copies can be made).

B. Steady Maintenance, and Toner Waste Container Indicators
Upon reaching the 100 copies, the machine stops, and will not allow further operation until the Toner Waste Container is replaced.
Replace the Toner Waste Container. (Refer to Section 2.2.5.of the Service Manual)

2.6. Lubrication Point List

This information is used for routine Preventive Maintenance (PM) calls to ensure the highest degree of reliability. Inspect the following areas, and lubricate as required. The inspection interval is usually 120K copies, or more, however the interval may be reduced due to environmental conditions.

Mechanical Parts	Ref. No.	Grease	Lubrication Point
Automatic Duplex Unit			
Pinch Timing Roller	712	KS-660	
Bias Transfer Bushing	709		

2.7. Updating the Firmware

The Quickest, and Most Easiest Method of Updating the Firmware is to use the Network Firmware Tool (FUP) using Ethernet LAN Port, and a Crossover Cable.

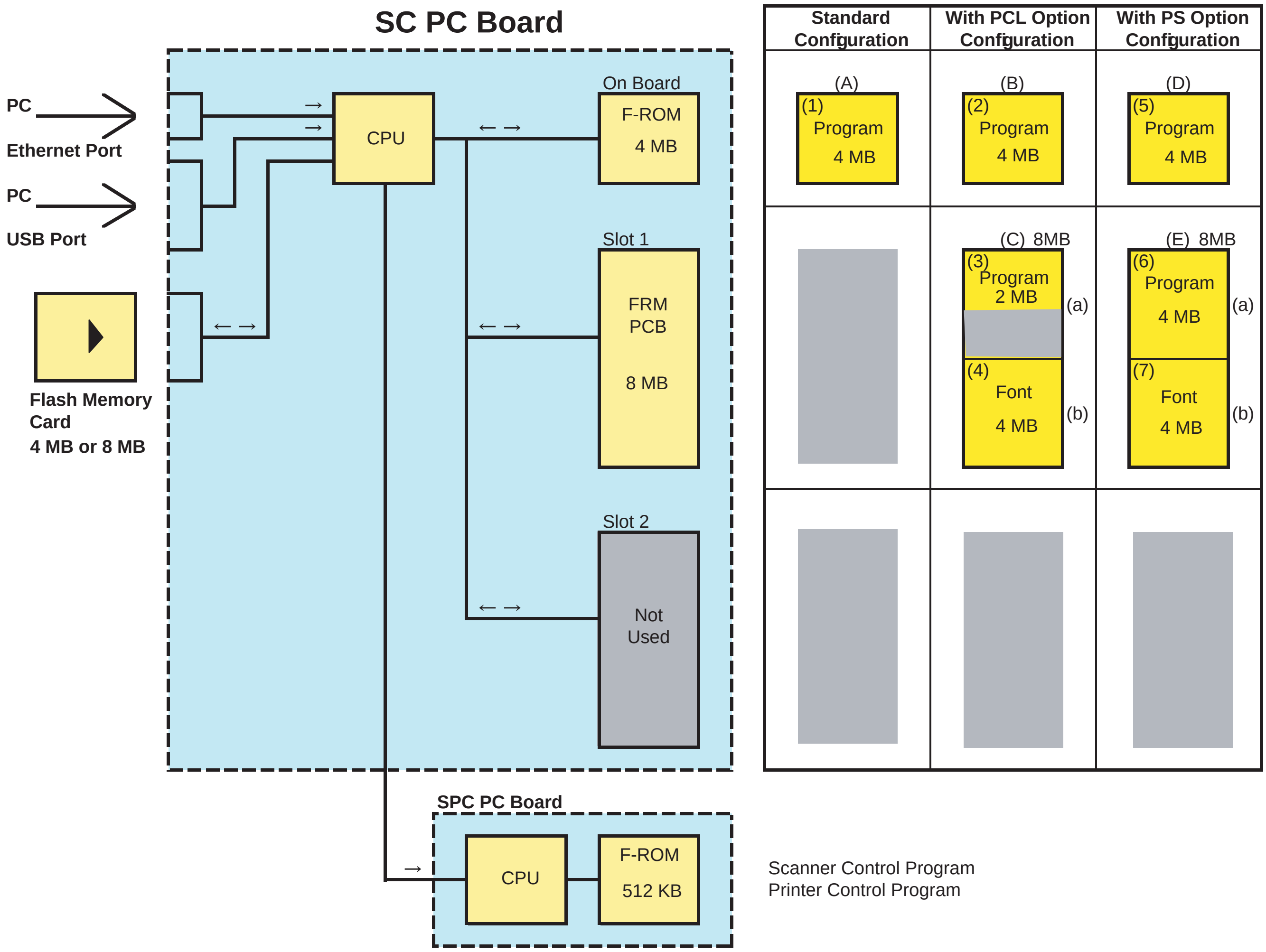
The Network FUP Tool version must be 3.XX, or higher, and it can be found on the Panasonic Document Management System CD-ROM included with the main unit, or on the CD-ROM included with the PCL, or PS/PCL options.

Refer to the Firmware Update Operation Instructions, Service Notes (8.1.) for additional details.

2.7.1. Firmware Configuration

A. Hardware Configuration

This machine is controlled by two (2) CPUs which are located on the System Control (SC) PC Board, and the Scanner Printer Control (SPC) PC Board.


SC PC Board
PC
Ethernet Port
PC
USB Port
Flash Memory Card
4 MB or 8 MB
CPU
On Board
F-ROM
4 MB
Slot 1
FRM PCB
8 MB
Slot 2
Not Used
Standard Configuration
With PCL Option Configuration
With PS Option Configuration
(A)
(1) Program 4 MB
(B)
(2) Program 4 MB
(D)
(5) Program 4 MB
(C) 8MB
(3) Program 2 MB
(a)
(4) Font 4 MB
(b)
(E) 8MB
(6) Program 4 MB
(a)
(7) Font 4 MB
(b)
SPC PC Board
CPU
F-ROM
512 KB
Scanner Control Program
Printer Control Program

B. SC PC Board Firmware

The 4 MB Program Memory (F-ROM) is integrated on the SC PCB. An Optional Expansion 8 MB Program Memory (FRM8 PCB) can be installed into SLOT 1.

The Firmware to be written into the 4 MB onboard, and the 8 MB of SLOT 1 depends upon the configuration of the Standard, PCL, or PS Options.

(1) **Standard**

The Standard Program (1) is only written into the 4 MB onboard, which is assigned as ROM Code (A).

(2) **For PCL Option**

The PCL Control Program (2) must be written into the 4 MB onboard, which is assigned as ROM Code (B). The PCL Control Program (3), and PCL Font data (4) are written into the 8 MB in the SLOT 1. The Firmware (3), and (4) are assigned as ROM Code (C).

When using 8 MB Flash Memory Card, the 8 MB Program (C) can be written onto one card.

When using 4 MB Flash Memory Card, the 8 MB program (C) must be divided onto 2 cards, one 4 MB card for the PCL Control Program (3), and one 4 MB card for the PCL Font data (4).

(3) **For PS Option**

The PS Control Program must be written into the 4 MB onboard, which is assigned as ROM Code (D). The PS Control Program (6), and (7) are written into the 8 MB in the SLOT 1.
Both Firmwares (6), and (7) are assigned as ROM Code (E).
When using 4 MB Flash Memory Card, the 8 MB program (E) must be divided onto 2 cards, one 4 MB card for the PS Control Program (6), and one 4 MB card for the PS Control Program (7).

C. SPC PC Board Firmware

The 512 KB Program Memory (F-ROM) is integrated on the SPC PCB. The Programs for Scanner Control, and Printer Control are saved on the Board. The Firmware is transferred as Serial Data from the SC PCB.

D. Firmware Updating Ports

Three (3) types of Ports are available for updating the firmware.

(1) Ethernet LAN Port (The Quickest, and Most Easiest Method)

The machine's Firmware can be updated from a PC via Local Area Network (LAN). Refer to the Firmware Update Operation Instructions, Service Notes (8.1.) for additional details.

(2) USB Port (Alternate)

The machine's Firmware can be updated from a PC via USB Port. The Master Firmware Card can also be created from a PC using the USB Port. Refer to the Firmware Update Operation Instructions, Service Notes (8.1.) for additional details.

(3) Flash Memory Card (Alternate)

The machine's Firmware can be updated using the Master Firmware Card. The Master Firmware Card can be created by copying the Firmware from an existing machine's SC PCB using a 4 MB, or 8 MB Flash Memory Card.
To update the SC, SPC, and PNL PCB, 3 Flash Memory Cards are required for the Standard configuration, or 5 Flash Memory Cards for the PCL, or PS/PCL configuration.

2.7.2. Updating through a LAN Port (The Quickest, and Most Easiest Method)

The firmware code can be easily updated when the main unit is connected to a LAN.
The Network Firmware Update Tool can also be used by connecting to the machine using a **crossover cable**, if the unit is not connected to a LAN.

1) **Install the Network Firmware Update Tool to your PC**

The option CD-ROM includes the Network Firmware Update Tool, and the Main Unit Firmware Code. Please refer to the following Operating Instructions to install the Network Firmware Update Tool.
The installation password is "**workio**".
Operating Instructions:
\xFirmware\Tools\NwFirmup\NwFirmup OI.pdf (Refer to the NW Firmware Update Tool OI on the CD)
Setup:
\xFirmware\Tools\NwFirmup\Setup\Setup.exe

2) **Preparing the Firmware Code**

Double click the appropriate Destination Shortcut Batch File, and copy the Firmware Code File on the CD-ROM to the Firmware Data Folder in your PC. Note that the files in the Archive will be extracted automatically into the designated folder when the Archived file (.exe) is Double-clicked.

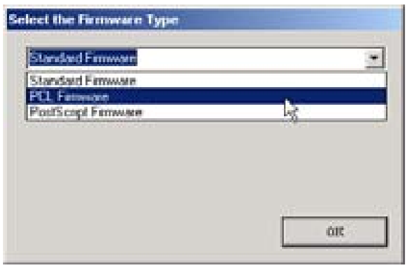
Example:
From:

Destination Shortcut Batch File:	D:(CD-ROM Drive) \ xFirmware \ USA.bat
Firmware Code File:	DP-8016_8020_PU_xxxxxx.exe
To:	
Firmware Data Folder:	C:\ Panasonic \ Panasonic-FUP \ Data

3) **Preparing the Main Unit for the Firmware Upgrade**
Make sure the unit's Key Operator Password is the same as the tool's password.
Make sure the unit is in an idle state (e.g. not making copies, not printing, etc.).

4) **Upgrading the Main Unit's Firmware Code**
Start the Network Firmware Update Tool, and select the following **Firmware Code Folders** in the **C:\Panasonic\Panasonic-FUP\Data** folder, and then follow the display instructions to upgrade the Main Unit's Firmware Codes.

Parent Firmware File Folder	Sub Firmware File Folder	Transferring Order
\ DP-8016_8020_PU_xxxxxx	\ **SC_STD** \ DP-LL80**A**xVxxxxx_xx	1
	\ **SC_PCL** \ DP-LL80**B**xVxxxxx_xx	1
	\ **SC_PS** \ DP-LL80**D**xVxxxxx_xx	1
	\ **SPC** \ LL80-SPCAxVxxxxxx	2



When you select the Parent Folder, the following Firmware Type window appears. Proper Sub File Folders are selected automatically by selecting the Firmware Type.
The transferring order is set up automatically.

Note:

1. Manual mode must be used, when updating the designated version of the firmware, or changing the type of the firmware.
   Please refer to the Section 2.2, "**Setting up the Network Firmware Update Tool, File Selection Tab**" of the Operating Instructions.
2. While updating the firmware code, the display may become garbled, however, it will return to normal upon completion of the firmware update.
3. If the firmware update fails, and the unit does not boot up, the Network Firmware Update Tool will not be able to transfer the firmware code. If this occurs, please refer to the next section "**Updating through the USB Port**", and use the Local Firmware Update Tool to recover the unit.
4. The suffix **"_xx"** for the Folder Name, or File Name may not exist depending on the destination location.

2.7.3. Updating through the USB Port (Alternate Method)

If the device is not connected to the LAN, upgrade the firmware code using the USB Port.

1) **Install the Local Firmware Update Tool to your PC**
The option CD-ROM includes the Local Firmware Update Tool, and the Main Unit Firmware Code.
Please refer to the following Operating Instructions to install the Local Firmware Update Tool.
Operating Instructions:
\xFirmware\Tools\Firmup\FIRMUP OI.pdf (Refer to the Local Firmware Update Tool OI on the CD)
Setup:
\xFirmware\Tools\Firmup\Setup\Setup.exe

2) **Preparing the Firmware Code**

Double click the appropriate Destination Shortcut Batch File, and copy the Firmware Code File on the CD-ROM to the Firmware Data Folder in your PC. Note that the files in the Archive will be extracted automatically into the designated folder when the Archived file (.exe) is Double-clicked.

Example:

From:

Destination Shortcut Batch File:	D:(CD-ROM Drive) \ xFirmware \ USA.bat
Firmware Code File:	DP-8016_8020_PU_xxxxxx.exe
To:	
Firmware Data Folder:	C:\ Panasonic \ Panasonic-FUP \ Data

3) **Preparing the Main Unit for the Firmware Upgrade**

Important: DO NOT connect the USB Cable yet.

Enter into Test Mode F9-07-01 to enable the unit to accept the programming code from the USB Port.

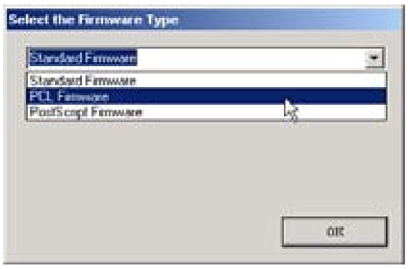
Now connect the USB Cable between the Unit, and PC.

4) **Upgrading the Main Unit's Firmware Code**

Start the Local Firmware Update Tool, and select the following **Firmware Code Parent File Folder** in the **C:\Panasonic\Panasonic-FUP\Data** folder, and select the Firmware Code Type then follow the display instructions to upgrade the Main Unit's Firmware Codes.

You must process each firmware file separately in this manner, and sequence.

Parent Firmware File Folder	Sub Firmware File Folder	Firmware File	Transferring Order
\ DP-8016_8020_PU_xxxxxx	\ **SC_STD** \ DP-LL80**A**xVxxxxx_xx	DP-LL80AxVxxxxx_xx.bin	1
	\ **SC_PCL** \ DP-LL80**B**xVxxxxx_xx	DP-LL80BxVxxxxx_xx.bin DP-LL80CxVxxxxxa_xx.bin DP-LL80CxVxxxxxb.bin	1-1 1-2 1-3
	\ **SC_PS** \ DP-LL80**D**xVxxxxx_xx	DP-LL80DxVxxxxx_xx.bin DP-LL80ExVxxxxxa_xx.bin DP-LL80ExVxxxxxb.bin	1-1 1-2 1-3
	\ **SPC** \ LL80-SPCAxVxxxxxx	LL80-SPCAxVxxxxxx.bin	2



When you select the Parent Folder, the following Firmware Type window appears. Proper Firmware Files are selected automatically by selecting the Firmware Type.

The transferring order is set up automatically.

Note:

1. While updating the firmware code, the display may become garbled, however, it will return to normal upon completion of the firmware update.
2. Please refer to the service manual for additional details.
3. The suffix **"_xx"** for the Folder Name, or File Name may not exist depending on the destination location.

2.7.4. Updating the Firmware using the Master Firmware Card (Alternate method)

1. Before starting, print the F5/F6 Parameters List **(Copy Service Mode F9-03-00)**.
2. Turn the Power Switch on the Right side of the machine to the OFF position. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord, if the Fax Option is installed.)
3. Install the appropriate Master Firmware Card into the machine.
4. Turn the Power Switch on the Right Side of the machine to the ON position.
5. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
6. Perform the Copy Service Mode F9-07-00 **(Update From Master Card)**.
7. The firmware is copied into the machine.
8. After the update is completed, the machine reboots itself, and returns to standby.
9. Turn the Power Switch on the Right side of the machine to the OFF position.
10. Remove the Master Firmware Card from the machine.
11. Turn the Power Switch on the Right Side of the machine to the ON position.
12. Reprogram the F5 & F6 Parameters according to the lists printed in Step 1 above if the settings are other than factory default.

Note:

After the update is completed, the machine reboots itself, and returns to standby mode.
Repeat the above steps if there are additional firmware code files to be updated.
Confirm that the update was successfully completed by checking the Firmware Version with F9 Parameters F9-02-xx.

Caution:

If the unit does not boot up properly in step 8, refer to Service Manual 3.7.8. **(Firmware Emergency Recovery)**

3.7.4.1. Creating a Master Firmware Card

A. Utilizing the Firmware Update Kit

1) **Install the Local Firmware Update Tool to your PC**

The option CD-ROM includes the Local Firmware Update Tool, and the Main Unit Firmware Code. Please refer to the following Operating Instructions to install the Local Firmware Update Tool.

Operating Instructions:

\xFirmware\Tools\Firmup\FIRMUP OI.pdf (Refer to the Local Firmware Update Tool OI on the CD)

Setup:

\xFirmware\Tools\Firmup\Setup\Setup.exe

2) **Preparing the Firmware Code**

Double click the appropriate Destination Shortcut Batch File, and copy the Firmware Code File on the CD-ROM to the Firmware Data Folder in your PC. Note that the files in the Archive will be extracted automatically into the designated folder when the Archived file (.exe) is Double-clicked.

Example:

From:

Destination Shortcut Batch File:	D:(CD-ROM Drive) \ xFirmware \ USA.bat
Firmware Code File:	DP-8016_8020_PU_xxxxxx.exe

To:

Firmware Data Folder:	C:\ Panasonic \ Panasonic-FUP \ Data

3) **Preparing the Main Unit for the Programming Master Firmware Card**

Important: DO NOT connect the USB Cable yet.

1. Turn the Power Switch on the Right side of the machine to the OFF position. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord, if the Fax Option is installed.)
2. Insert/Remove the Flash Memory Card (4 MB, or 8 MB) into/from the machine.

3. Turn the Power Switch on the Right Side of the machine to the ON position.
4. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
5. Perform the Update Program Card Mode F9-09 **(Update Program Card)**.

   The unit is now ready to accept the firmware code from the USB Port.
   Now connect the USB Cable between the Unit, and PC.
   (Refer to the Local Firmware Update Tool OI on the CD)

Repeat the above steps if there are additional master firmware cards to be programmed.

B. Copying the Firmware from an Existing Machine using a Flash Memory Card (4 MB, or 8 MB)

1. Turn the Power Switch on the Right side of the machine to the OFF position. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord, if the Fax Option is installed.)
2. Install a Flash Memory Card (4 MB, or 8 MB) into the machine.
3. Turn the Power Switch on the Right Side of the machine to the ON position.
4. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
5. Perform the Copy Service Mode F9-08 **(Program Backup)**.
6. The firmware is copied into the Flash Memory Card.
7. After the backup is completed, press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.
8. Turn the Power Switch on the Right side of the machine to the OFF position.
9. Remove the Master Firmware Card that you just created from the machine.
10. Turn the Power Switch on the Right Side of the machine to the ON position.
11. Use this Master Firmware Card to update the firmware on other machines.

3.7.4.2. Erasing the Master Firmware Card

1. Turn the Power Switch on the Right side of the machine to the OFF position. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord, if the Fax Option is installed.)
2. Install the Master Firmware Card into the machine.
3. Turn the Power Switch on the Right Side of the machine to the ON position.
4. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
5. Perform the Service Mode F9-09 **(Update Program Card)**.
6. After the Flash Memory Card is erased, machine prompts “**READY TO PROGRAM PRESS SET TO START**”. Press “**STOP**”.
7. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.
8. Turn the Power Switch on the Right side of the machine to the OFF position.
9. Remove the blank Flash Memory Card from the machine.
10. Repeat from Step 2 above if you are erasing another Master Firmware Card.

2.7.5. User Authentication Function Confirmation (Specified Destinations only)

If your customer requires User Authentication, and/or Via Fax Server, setup the feature(s) by referring to the Operating Instructions (For User Authentication).

2.7.6. Notice after installing the HDD option

After the Hard Disk Drive Unit is installed, to prevent a Scan Disk Function from being performed (similar to Windows OS when the power is abruptly interrupted), it is important to follow the step sequence below when turning OFF the Power Switch on the machine.

1. If the machine is in the "ENERGY SAVER (Shutdown Mode)", you may turn the Power Switch on the Right Side of the machine to the OFF position. If it is not in the "ENERGY SAVER (Shutdown Mode)", continue to step 2 below.
2. Press "FUNCTION", and "ENERGY SAVER" keys simultaneously first.
3. Wait approximately 10 seconds while the machine writes the closing status onto the Hard Disk Drive Unit, and advances into “ENERGY SAVER MODE”.
4. Turn the Power Switch on the Right side of the machine to the OFF position.
5. Unplug the AC Power Cord. (During a Lightning Storm, to prevent electrocution disconnect the Telephone Line Cable first before unplugging the AC Power Cord, if the Fax option installed.)
6. After finishing the installation of the Hard Disk Drive, please go over the above Power Down procedure with the customer to avoid the Scan Disk Function from being performed (indicated by SCANNING HARD DISK message on the display), and customer inquiries related to abrupt Power Off.
7. Reconnect the Telephone Line Cable if it was disconnected.

2.7.7. Firmware Emergency Recovery

The easiest method to recover the firmware in an Emergency Recovery routine is to either use the Local Firmware Update Tool software by selecting the Independent File method, or using the Master Firmware Flash Card method (2 Flash Cards required).

Whichever method you select, it is easier to restore the machine's firmware to the Standard (AAV) Type first as it only requires 2 files to bring the machine to initial working condition. (Install the files in this order: SC, and SPC).

After recovering, if optional PCL, or PS/PCL firmware is required, use the Network Firmware Update Tool, or the Local Firmware Update Tool to update the firmware to the required level.

If the unit does not boot up properly, follow the steps below:

1. Turn the power Off (use the power switch on the right side of the unit).
   - Before proceeding to the next step, you must prepare either the Local Firmware Update Tool, or create the Master Firmware Flash Cards (read the appropriate sections first).
   - If using the Master Firmware Card, insert the Master Firmware Flash Cards in the unit.
2. Turn the power On while holding the “ENERGY SAVER” key.
3. When the green lamp on the front panel turns On, release the “ENERGY SAVER” key.
   - If using the Master Firmware Card, the unit will start updating the Firmware code files automatically.

The unit is now ready to accept the firmware code from the USB Port, or Master Firmware Card.
Repeat the above steps if there are additional firmware code files to be updated.

2.7.8. Firmware Version

SC : DP-LL80 A A Vxxxxx (a) PU (AU)

Destination Code (Fax)
AU : USA/Canada
AB : UK

Destination Code (Copier)
PU : USA/Canada
PB : UK

Division Soft
(When it is divided into (a) and (b))

Firmware Version (V1xxxx)

Language Code
A : A-English, C-French & Spanish
c : French, German, Italian, Dutch, Portuguese, Spanish, English & Greek
d : French, German, Swedish, Norwegian, Danish, Finnish, Turkish & English
e : French, German, English, Polish, Hungarian, Czech & Russian
j : English & Korean
k : English & Taiwanese
n : English & Chinese

Firmware Type
A : Standard
B, C, D, E : Optional

Model Number

SPC : LL80- SPC AA Vxxxxx

Firmware Version (V1xxxx)

AA: Fixed

SPC

Model Number

2.8. Copy Quality Adjustment Procedure (Order)

When the following items are replaced or cleaned, perform adjustments in the correct order.

No.	Work	Adjustment / Part Item	Optics Clean	Process Unit Clean	Toner Spill Tray Clean	TDC Adj. F8-09	OPC Counter Reset F8-14	LSU PWM Pattern Print F8-18	PWM Adj. F6-39 (Note 3)	LSU Adj. (Note 4)	Print F5/F6 (Note 1)	Image Density Adj. F6-49 /50/51 (Note 2)	Remark
1	Installation	Main				1	2				3	4	
2	Cleaning	Optics	1								2	3	
3		Process Unit		1							2	3	
4		Toner Spill Tray			1						2		
5	Replace	Scanning Lamp	1								2	3	
6		Platen Glass									1	2	
7		OPC Drum		1	2		3				4	5	
8		Developer				1					2	3	
9		OPC Drum & Developer		1	2	3	4				5	6	
10		Corona Wire		1	2						3	4	
11		Process Unit			1	2	3				4	5	
12		Toner Density Sensor				1					2	3	Replace Developer
13		LSU						1	2	3	4	5	
14		SC PC Board									1	2	Input F5/F6 Parameter

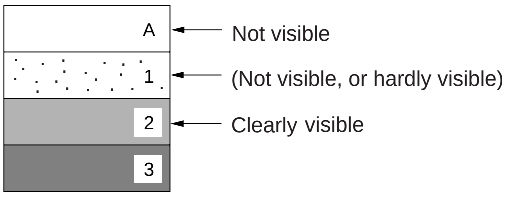
Note:

1. Print F5/F6

1) Press “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys sequentially to enter the Service Mode.
2) Press the "**9**" key to enter the F9 Mode (Unit Maintenance).
3) Press the "**START**" key.
4) Press "**3**", and "**SET**" keys.
5) Press "V", or "/\" arrow keys to select "**00 F5/F6 PARAMETERS**", and press "**SET**" key.
6) Prints the memory contents of the F5, and F6 modes.

2. Contrast Adjusting

1) Press “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys sequentially to enter the Service Mode.
2) Press the "**2**", and the "**START**" keys to enter the F2 Mode (Single Copy Test).
3) Set the exposure to the center position.
4) Set the machine to TEXT / PHOTO Mode.
5) Make a copy of Test Chart 53/54 with gray scale (P/N: FQ-SJ1011), and compare the density to the chart shown below. If it is within specification, skip to step (14).
   a. Gray scale “A” should not be visible.
   b. Gray scale “2” should be clearly visible.



6) Press the "**STOP**" key to exit the F2 Mode (Single Copy Test).
7) Press the “**6**”, and the "**START**" keys to enter the F6 Mode (Adjust Parameters).
8) Enter F6-50 Mode (T/P Mode Image Density).
9) Press the "**SET**" key to highlight the current value.
10) Enter a new value (up to 3-digits).

Note:
The “RESET” key is used to change to a Negative, or Positive (+/-) value.
(+) : Lighter
(-) : Darker

11) Press the “**SET**”, and “**STOP**” keys.
12) Enter F2 Mode (Single Copy Test).
13) Make a copy to confirm the adjustment.

Note:
Repeat Steps (3) to (10) until desired density is attained.
F6-49 : T Mode Image Density (Text)
F6-51 : P Mode Image Density (Photo)

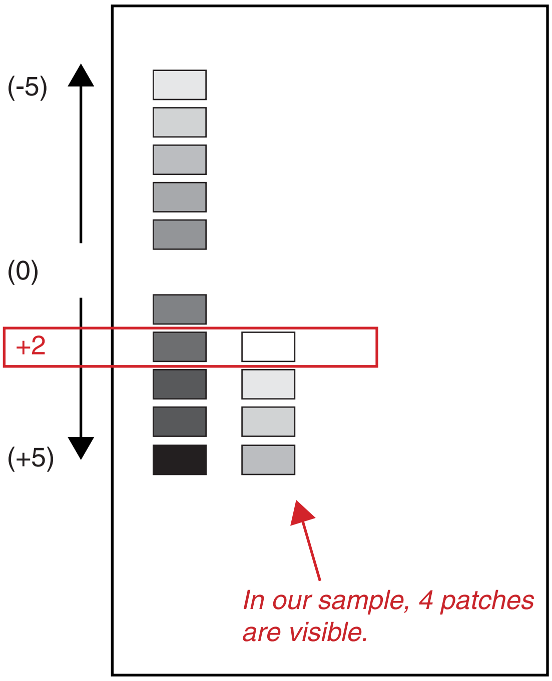
14) Press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the Service Mode.

3. PWM Adjustment

1) Ensure that Ledger / A3 Size Paper is loaded in one of the Trays, and pull out the remaining trays (including the bypass tray) to disable them.
2) Press “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys sequentially to enter the Service Mode.
3) Press the "**8**" key to enter the F8 Mode (Service Adjustment).
4) Press the "**START**" key.
5) Press the "**1**", "**8**", and "**SET**" keys sequentially to enter the F8-18 "**C18 PRT PWM ADJ. PTN.**".
6) Press the "**START**" key to begin the LSU PWM Pattern Printing.

Sample:

4 gray patches are visible in the illustration, the value of the uppermost patch position is "+2" in our example.



Test Pattern

7) Press the "**STOP**" key.
8) Press the "**6**", and the "**START**" keys to enter the F6 Mode (Adjust Parameters).
9) Select "**39 LSU Unit PWM ADJUST**".
10) Press "**SET**" button, and enter the value of the gray patch, as established in Step (6).

4. LSU Adjustment

Refer to 2.9.

2.9. Adjusting the Printer Registration, LSU Image Side to Side

When installing the Paper Tray option, the following LSU Image Side to Side adjustment must be performed.

The Printer registration is adjusted at the factory.

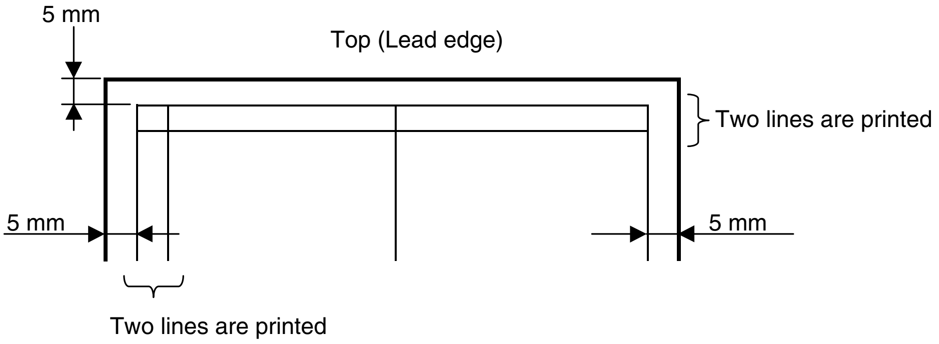
If copy image is abnormal, specially in the Rotation Copy mode, adjust it by the following procedure.

2.9.1. Printer Registration

1. Insert Ledger, or A3 size paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
2. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
3. Perform the Service Mode F1-03 (Print Test Pattern 1).
4. Check the gap of the print pattern from the paper edge, refer to the Figure below.
5. Perform the Service Mode F6-04 (Printer Registration) to adjust the gap to be 5 mm.
6. If the gap is less than 5 mm, input a (-) value. If more than 5 mm, input a (+) value.
7. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

<Figure>

Two lines are printed on the top (Lead edge).
For Ledger or A3, place as Portrait.
For Letter or A4, place as Landscape.



2.9.2. LSU Image Side to Side Adjustment for the Tray

1. Insert paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
2. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
3. Perform the Service Mode F1-03 (Print Test Pattern 1).
4. Check the gap of the print pattern from the paper edge, refer to the Figure above.
5. Perform the Service Mode F6-10 to F6-14, to adjust the gap to be 5 mm.
6. If the gap is less than 5 mm, input a (+) value. If more than 5 mm, input a (-) value.
7. Proceed the above steps for other Tray.
8. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

2.9.3. LSU Image Side to Side Adjustment for the ADU

1. Insert paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
2. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
3. Perform the Service Mode F1-06 (Print Test Pattern 4).
4. Check the gap of the print pattern from the paper edge, refer to the Figure above.
5. Perform the Service Mode F6-16 (ADU Side Adjust), to adjust the gap to be 5 mm.
6. If the gap is less than 5 mm, input a (+) value. If more than 5 mm, input a (-) value.
7. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

2.9.4. 100% Read Adjustment

1. Place the Original Document on the Platen Scanner.
2. Insert Ledger, or A3 size paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
3. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
4. Perform the Service Mode F2 (Single Copy Test).
5. Check the Image size of the Copy, and the Original as Portrait.
6. Perform the Service Mode F6-00 (Adj 100% Side-Side Read), to adjust for an identical vertical (side-to-side) size ratio.
7. If the image is smaller than the Original, input a (+) value. If bigger than the Original, input a (-) value.
8. Perform the Service Mode F6-01 (Adj 100% Lead-Tail Read), to adjust for an identical horizontal (top-to-bottom) size ratio.
9. If the image is smaller than the Original, input a (+) value. If bigger than the Original, input a (-) value.
10. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

Note:
This is for size adjustment, and does not adjust positioning.

2.9.5. Original Registration & CCD Read Adjustments

1. Place the Original Document on the Platen Scanner.
2. Insert Ledger, or A3 size paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
3. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
4. Perform the Service Mode F2 (Single Copy Test).
5. Check the Image size of the Copy, and the Original as Portrait.
6. Perform the Service Mode F6-03 (Original Registration), to adjust the platen original registration detection timing.
7. If the gap is smaller than the Original, input a (-) value. If bigger than the Original, input a (+) value.
8. Perform the Service Mode F6-53 (CCD Read Position Adj), to adjust the CCD Read side position.
9. If the gap is smaller than the Original, input a (+) value. If bigger than the Original, input a (-) value.
10. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

2.9.6. ADF 100% Image 1-Sided Adjustment

1. Place the Original Document on the ADF.
2. Insert Ledger, or A3 size paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
3. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
4. Perform the Service Mode F2 (Single Copy Test).
5. Check the Image size of the Copy, and the Original as Portrait.
6. Perform the Service Mode F6-93 (ADF 100% Image 1-Sided), to adjust for an identical vertical (side-to-side) magnification for 1-sided scan.
7. If the image is smaller than the Original, input a (+) value. If bigger than the Original, input a (-) value.
8. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

Note:
This is for size adjustment, and does not adjust positioning.

2.9.7. ADF Original Read Edge & ADF Main Scan Adjustments

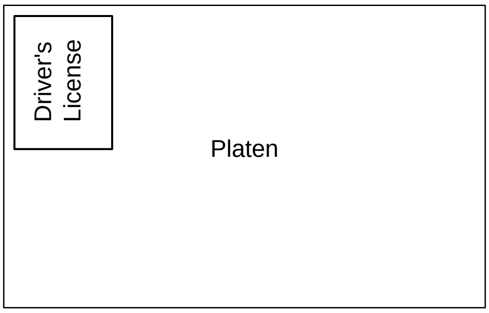
1. Place the Original Document on the ADF.
2. Insert Ledger, or A3 size paper into the 1st tray, and change the tray setting to the appropriate paper size. Empty, or pull out all the remaining trays (including the bypass tray) to disable them.
3. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
4. Perform the Service Mode F2 (Single Copy Test).
5. Check the Image size of the Copy, and the Original as Portrait.
6. Perform the Service Mode F6-91 (Original Read Edge ADF), to adjust for the ADF Original Read Edge detection timing.
7. If the gap is less than the Original, input a (+) value. If bigger than the Original, input a (-) value.
8. Perform the Service Mode F6-90 (ADF Read Main Scan Pos.), to adjust for the ADF horizontal image read start position.
9. If the gap is less than the Original, input a (+) value. If bigger than the Original, input a (-) value.
10. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.

2.9.8. Double Exposure Lead, and Side Edge Adjustments

Caution:

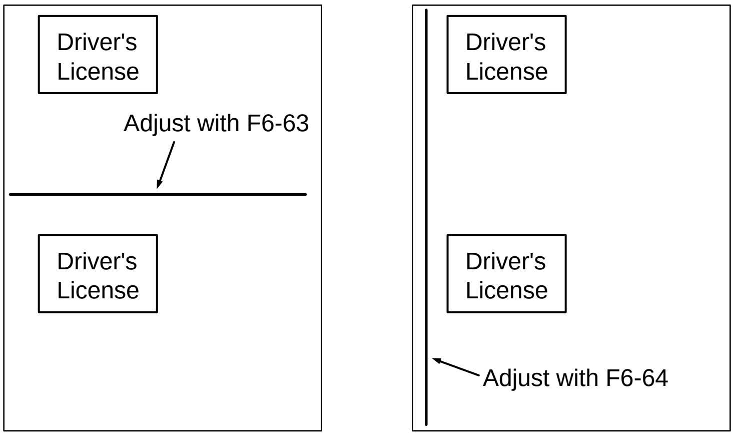
Confirm that the Scanning Pad is installed, and aligned correctly on the ADF/i-ADF prior to making any adjustments. (Refer to the ADF/i-ADF Installation Instructions in Sect. 8.11., or 8.12.of the Service Manual)

1. Place a Business Card, Driver's License, Insurance Card, etc. (Invoice size, or smaller) on the Platen Glass as illustrated.



2. Insert Letter, or A4 size paper into the 1st Paper Tray, or onto the Sheet Bypass, and change the tray settings to the appropriate paper size.
3. Make a copy using the Double Exposure Copy Mode.
4. Check the Copy Image.
   a. For a Horizontal Black Line in the Center, adjust the Service Mode F6-63 (Lead Edge Read Timing) by following the steps below.
   b. For a Vertical Black Line at the Leading Edge, adjust the Service Mode F6-64 (Side Edge Read Adjust) by following the steps below.

Output of Letter (A4) Paper (not LTR-R)



5. Press “**FUNCTION**”, “**ORIGINAL SIZE**” keys, and then Key “**3**” on the keypad sequentially.
6. Perform the Service Mode F6-63 (Lead Edge Read Timing), and F6-64 (Side Edge Read Adjust).

   Note:

   It is not recommended setting the value higher than "4" as it will increase the Void Area.
7. Press "**STOP**" first, and then press "**FUNCTION**" + "**CLEAR**" keys simultaneously to return to standby.
8. Repeat the above steps 3 to 7 until the Black Line(s) disappear.

2.10. Signal Waveform

2.10.1. Glossary of Electrical Abbreviations

Glossary of Electrical Abbreviations	
Signal Name	**Function**
+12V	+12 VDC Power Supply
+24V	+24 VDC Power Supply
+24VD1	+24 VDC Power Supply
+24VFL	+20 / +24 VDC Power Supply
+24VM	+24 VDC Power Supply
+24VOPC	+24 VDC Power Supply
+24VOPF	+24 VDC Power Supply
+3.3V	+3.3 VDC Power Supply
+5v	+5 VDC Power Supply
+5VD	+5 VDC Power Supply
+5VP	+5 VDC Power Supply
+ACT	ACTIVE Lamp LED Power Supply
+ALM	ALARM Lamp LED Power Supply
+DAT	DATA Lamp LED Power Supply
+SLP	Energy Saver Lamp LED Power Supply
AC(L)	AC Power Supply
AC(N)	AC Power Supply
ACSW	Fuser Relay
ADF2	2nd Paper Tray Feed Roller Drive Signal
ADF3	3rd Paper Tray Feed Roller Drive Signal
ADF4	4th Paper Tray Feed Roller Drive Signal
AGND	Ground
BAT+	Lithium Battery
BMCNT	Toner Bottle Motor Control Signal
BTHP	Toner Bottle Position Sensor Signal
BZ-	Buzzer Signal
BZ+	Buzzer Signal (+)
C1-	Capacitor 1 Negative Connection Pin for Converter
C1+	Capacitor 1 Positive Connection Pin for Converter
C2-	Capacitor 2 Negative Connection Pin for Converter
C2+	Capacitor 2 Positive Connection Pin for Converter
C3+	Capacitor 3 Positive Connection Pin for Converter
C4+	Capacitor 4 Positive Connection Pin for Converter
CASET	Paper Tray Detection Signal (1st Feeder)
CCRMT	Charge Leak Detection Signal
CPWM	Charge Control DC ON/OFF PWM
CSB1	Chip Select Signal
CST2	2nd Paper Tray Detection Signal
CST3	3rd Paper Tray Detection Signal
CST4	4th Paper Tray Detection Signal
CSTOP	2nd Paper Feed Module Detection Signal
CSTOP4	4th Paper Feed Module Detection Signal

Glossary of Electrical Abbreviations	
Signal Name	**Function**
DAA1	ADF Motor Current Control Signal
DB0	Data Signal
DB1	Data Signal
DB2	Data Signal
DB3	Data Signal
DB4	Data Signal
DB5	Data Signal
DB6	Data Signal
DB7	Data Signal
DDCPWM	Development Control DC ON/OFF PWM
E_RDB	Read/Write Execution Control Signal
ELPCNT	Discharge Lamp
F/R	Direction of Rotation Signal
FDPCHK2	2nd Paper Tray Paper Registration Detection Signal
FDPCHK3	3rd Paper Tray Paper Registration Detection Signal
FDPCHK4	4th Paper Tray Paper Registration Detection Signal
FSH	Transfer Gate Clock
GND	Ground
GPWM	Grid Control ON/OFF PWM
HFSOL	Temp Humidity Sensor Signal
HPMB	LCD driver Power Control Signal
HSYNC	Horizontal Synchronous Signal
HUMISN	Temp Humidity Sensor Signal
HVAC1	INV PC Board/Lamp Signal
HVAC2	INV PC Board/Lamp Signal
IICSCL	IIC Transmission Clock
IICSDA	IIC Transmission Signal
IOUTA	Motor Control Signal
IOUTB	Motor Control Signal
JAMDOR2	2nd Paper Tray Jam Access Cover Open Detection Signal
JAMDOR3	3rd Paper Tray Jam Access Cover Open Detection Signal
JAMDOR4	4th Paper Tray Jam Access Cover Open Detection Signal
KCDET	Key Counter Option Detection
KCNT	Key Counter Option
KIN0	PNL Key Signal (Key Line)
KIN1	PNL Key Signal (Key Line)
KIN2	PNL Key Signal (Key Line)
KIN3	PNL Key Signal (Key Line)
KIN4	PNL Key Signal (Key Line)
KIN5	PNL Key Signal (Key Line)
KIN6	PNL Key Signal (Key Line)
KIN7	PNL Key Signal (Key Line)
L1	Line Signal
L2	Line Signal
L5V	Laser Circuit +5VDC Power Supply
LD	Motor Lock Detection Signal

Glossary of Electrical Abbreviations	
Signal Name	**Function**
LDBTHP	Toner Bottle HP Sensor Signal
LDCST2	Photo Sensor DC Drive Voltage
LDCST3	Photo Sensor DC Drive Voltage
LDCSTSEN	Photo Sensor DC Drive Voltage
LDDUX	Photo Sensor DC Drive Voltage
LDEN	Laser Control
LDFPCHK2	Photo Sensor DC Drive Voltage
LDFPCHK3	Photo Sensor DC Drive Voltage
LDFPCHK4	Photo Sensor DC Drive Voltage
LDHEX	Photo Sensor DC Drive Voltage
LDHFPE	Photo Sensor DC Drive Voltage
LDI-	Laser Diode Control -
LDI+	Laser Diode Control +
LDJAM2	Photo Sensor DC Drive Voltage
LDJAM3	Photo Sensor DC Drive Voltage
LDJAM4	Photo Sensor DC Drive Voltage
LDORI	Photo Sensor DC Drive Voltage
LDPED	Photo Sensor DC Drive Voltage
LDPHK2	Photo Sensor DC Drive Voltage
LDPHK3	Photo Sensor DC Drive Voltage
LDPHK4	Photo Sensor DC Drive Voltage
LDPSEN	Photo Sensor DC Drive Voltage
LDRRSEN	Photo Sensor DC Drive Voltage
LDSSN	Photo Sensor DC Drive Voltage
LDTF	Photo Sensor DC Drive Voltage
LDUPL2	Photo Sensor DC Drive Voltage
LDUPL3	Photo Sensor DC Drive Voltage
LDUPL4	Photo Sensor DC Drive Voltage
LDUPLSEN	Photo Sensor DC Drive Voltage
LDWTB	Photo Sensor DC Drive Voltage
LED0	PNL LED Control Signal
LED1	PNL LED Control Signal
LED2	PNL LED Control Signal
LED3	PNL LED Control Signal
LED4	PNL LED Control Signal
LED5	PNL LED Control Signal
LED6	PNL LED Control Signal
LED7	PNL LED Control Signal
LED8	PNL LED Control Signal
LED9	PNL LED Control Signal
LEDCT0	PNL LED Control Signal
LEDCT1	PNL LED Control Signal
LEDCT2	PNL LED Control Signal
LEDCT3	PNL LED Control Signal
LEDCT4	PNL LED Control Signal
LIFT1	1st Paper Tray Lift Motor Signal

Glossary of Electrical Abbreviations	
Signal Name	**Function**
LIFT2	2nd Paper Tray Lift Motor Signal
LIFT4	4th Paper Tray Lift Motor Signal
LIFTM2	2nd Paper Tray Lift Motor Drive Signal
LIFTM4	4th Paper Tray Lift Motor Drive Signal
MGND	Ground
MRCLH2	2nd Paper Tray Intermediate Roller Clutch Drive Signal
MRCLH3	3rd Paper Tray Intermediate Roller Clutch Drive Signal
MRCLH4	4th Paper Tray Intermediate Roller Clutch Drive Signal
N.C.	No Connection
nA3SEN	Sheet Bypass Paper Size Detection Signal
nA5SEN	Sheet Bypass Paper Size Detection Signal
nAA3S	Original Width Detection Signal
nAA3SN	Original Width Detection Signal
nAADL1	Original Length Detection Signal
nAADL2	Original Length Detection Signal
nAAPNT	Original Detection Signal
nAB1SN	Read Point Detection Signal
nAB2SN	Duplex Eject Detection Signal
nAB4S	Original Width Detection Signal
nAB4SN	Original Width Detection Signal
nACLH1	Feed 2 Roller Clutch Control Signal
nACLH2	Paper Feed Roller Clutch Control Signal
nACLH3	Inverting Roller Clutch Control Signal
nACLOCKAD1	ADF Motor Control Clock Signal
nAEJC	Original Eject Detection Signal
nAKEEP1	Reversing 1 Guide Solenoid Control Signal
nAKEEP2	Reversing 1 Guide Solenoid Control Signal
nANG	Platen Cover Angle
nAOAC	ADF Cover Open Detection Signal
nAPACHG	Release Lever Plate Solenoid Control Signal
nAPICR	Release Lever Plate Solenoid Control Signal
nAREV	ADF Exit Cover Open Detection Signal
nASTAMP	Stamp Control Signal
nASTROAD1	ADF Motor Control Strobe Signal
nATT	Attention Signal
nB4SEN	Sheet Bypass B4 Paper Detection Signal
nBDOOR	Platen Cover Open Detection Signal
nCCLH1	Feed 2 Roller Clutch Control Signal
nCCLH2	ADF Roller Clutch Control Signal
nCCLH3	Inverting Roller Clutch Control Signal
nCST2	2nd Paper Tray Detection Signal
nCTCNT	Counter Drive Signal
nCTON	Ring Detection Signal
nDADFON	ADF Option Detection Signal
nDUPACK	Duplex Print Acknowledge Signal
nDUPSEN	ADU Sensor Signal

Glossary of Electrical Abbreviations	
Signal Name	**Function**
nDUREQ	Duplex Print Request
nDUXSOL	ADU Solenoid Control Signal
nFLON	Inverter Ground
nFNRDT	Fan Ready Signal
nFNRDTP	PS Fan Ready Signal
nHEXSEN	Paper Exit Sensor Signal
nHFPESEN	Bypass Feed Sensor Signal
nHKOF	External Phone Off-Hook Detection Signal
nLEDACT	ACTIVE Lamp LED Control Signal
nLEDALM	ALARM Lamp LED Control Signal
nLEDDAT	DATA Lamp LED Control Signal
nLEDSLP	Energy Saver Lamp LED Control Signal
nLIFTM3	3rd Paper Tray Lift Motor Drive Signal
nLPOW1	Power Control
nLPOW2	Power Control
nMMCK	Main Motor Clock
nMMON	Main Motor Rotation Control Signal
nMMRDY	Main Motor Ready Signal
nOPDUP	Duplex Unit Detection Signal
nOPT	PNL4 Detection
nORI	Home Position Detection Signal
nOUTA	Motor Control Signal
nOUTB	Motor Control Signal
nPACK	Printer ACK Signal
nPCHK4	4th Paper Tray Paper Detection Signal
nPEDSEN	Sheet Bypass Paper Detection Signal
nPHY1	CCD CLOCK
nPHY2	CCD CLOCK
nPHYCP	CCD CLOCK
nPHYR	CCD CLOCK
nPNLRST	Panel Reset Signal
nPRDY	Printer Ready Signal
nPRGDWN	F-ROM Rewrite
nPVSYNC	Print Registration
nSACK	Scan ACK Signal
nSADFON	ADF Detection Signal
nSCNWUP	Energy Saver Signal
nSLPKY	Energy Saver Key Signal
nSREQ	Scanner Request Signal
nSTAMP	Stamp Control Signal
nTFSEN	Toner Waste Sensor
nVCNT	+24 VDC Power Supply Control Signal
nVRDY	VSYNC Reset Signal
nWAKE	FAX Wake Up Signal
nWTBSEN	Toner Waste Container Detection Sensor Signal
OP3CLK	3rd Paper Tray Motor Clock

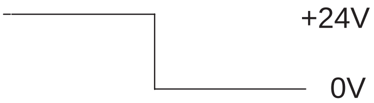
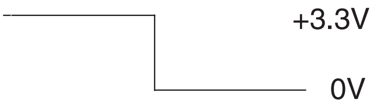
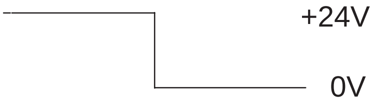
Glossary of Electrical Abbreviations	
Signal Name	**Function**
OP3ENB	Option Feed FIFO Enable
OP3FCK	Option Feed FIFO Clock
OP3FDIN	Option Feed FIFO Input
OP3FLD	Option Feed FIFO Load
OP3FLT	Option Feed FIFO Latch
OP3FOT	Option Feed FIFO Output
OP3RST	Option Feed FIFO Reset
OUTA	Motor Control Signal
OUTB	Motor Control Signal
P/S	Motor Start/Stop
pADATA1A	ADF Motor Control Signal
pADATA1B	ADF Motor Control Signal
pBDA	Print BDA Signal
PCHK1	1st Paper Tray Paper Detection Signal
PCHK2	2nd Paper Tray Paper Detection Signal
PCHK3	3rd Paper Tray Paper Detection Signal
PCHK4	4th Paper Tray Paper Detection Signal
pCMLD	Line Switching Relay Drive Signal
PFCLCNT	Paper Feed Clutch Drive Signal
PMCK	Polygon Motor Clock
PMON	Polygon Motor Rotation Signal
PMRDY	Polygon Motor Ready Signal
PNLRXD	PNL Reception Data Signal
PNLTXD	PNL Transmission Data Signal
POWCNTV	Laser Power Control Signal
pPHY1	CCD CLOCK
pPHY2	CCD CLOCK
pPHYCP	CCD CLOCK
pPHYR	CCD CLOCK
PS	Parallel / Serial Data Input Select Signal
pSENTIM	Scanner LSYNC Signal
pSPCRST	SPC Reset Signal
pSPKOT	Line Dial Tone Signal
pVREQ	Print ACK Request Signal
RESETB	LCD Driver Reset Signal
RETRACE	Laser Control
RRCLCNT	Registration Roller Drive Signal
RS	Register Selection Control Signal
RSEN	Registration Sensor Signal
RW_WRB	LCD Control Signal
S/H	Sample Hold Signal
SCN0	PNL Key Signal (Scan Line)
SCN1	PNL Key Signal (Scan Line)
SCN10	PNL Key Signal (Scan Line)
SCN11	PNL Key Signal (Scan Line)
SCN2	PNL Key Signal (Scan Line)

Glossary of Electrical Abbreviations	
Signal Name	**Function**
SCN3	PNL Key Signal (Scan Line)
SCN4	PNL Key Signal (Scan Line)
SCN5	PNL Key Signal (Scan Line)
SCN6	PNL Key Signal (Scan Line)
SCN8	PNL Key Signal (Scan Line)
SCN9	PNL Key Signal (Scan Line)
SMCNT	Toner Motor Control Signal
SPCRXD	SPC Reception Data Signal
SPCTXD	SPC Transmission Data Signal
SSR	Heater Control Signal
TC	Transfer Control Cleaning Output
TDREF	Toner Density Reference Sensor
TDSEN	Toner Density Sensor Signal
TEMPSN	Temp Humidity Sensor Signal
THERM1	Thermistor Output Signal
THERM2	Ground
TPWM	Transfer Control Transfer Output
UPLIMIT	1st Paper Tray Paper Level Signal
UPLIMIT2	2nd Paper Tray Paper Level Signal
UPLIMIT3	3rd Paper Tray Paper Level Signal
UPLIMIT4	4th Paper Tray Paper Level Signal
UPLMT2	2nd Paper Tray Paper Level Signal
UPLMT4	4th Paper Tray Paper Level Signal
V0	LCD Driver Supply Voltages
V1	LCD Driver Supply Voltages
V2	LCD Driver Supply Voltages
V3	LCD Driver Supply Voltages
V4	LCD Driver Supply Voltages
VCL	LCD Power Supply
VDD	+3.3 VDC Power Supply
VOUT	Voltage Converter Input / Output
VOUT1	Graphic Data Output
VOUT2	Graphic Data Output
VSS	Ground
ZCRS	Heater Control Signal

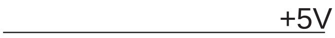
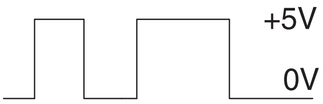
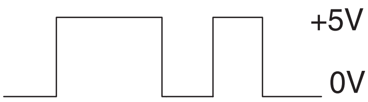
2.10.2. SC PC Board

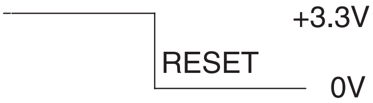
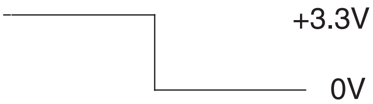
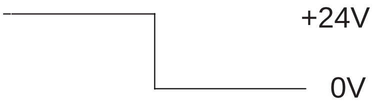
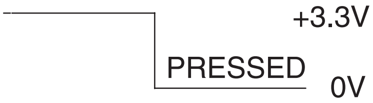
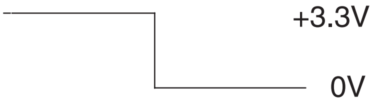
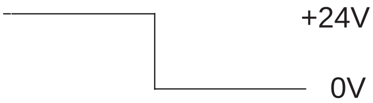
CN51

SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN51-1	+24V	PS PCB CN11-1	+24V	+24 VDC Power Supply
CN51-2	GND	PS PCB CN11-2	0V	Ground
CN51-3	+5VP	PS PCB CN11-3	+5V	+5 VDC Power Supply
CN51-4	+5VD	PS PCB CN11-4	+5V	+5 VDC Power Supply
CN51-5	+5v	PS PCB CN11-5	+5V	+5 VDC Power Supply
CN51-6	GND	PS PCB CN11-6	0V	Ground
CN51-7	GND	PS PCB CN11-7	0V	Ground
CN51-8	GND	PS PCB CN11-8	0V	Ground
CN51-9	GND	PS PCB CN11-9	0V	Ground
CN51-10	GND	PS PCB CN11-10	0V	Ground
CN51-11	+3.3V	PS PCB CN11-11	+3.3V	+3.3 VDC Power Supply
CN51-12	+3.3V	PS PCB CN11-12	+3.3V	+3.3 VDC Power Supply

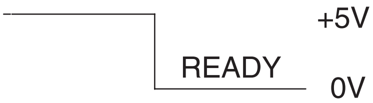
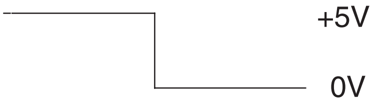
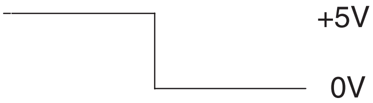
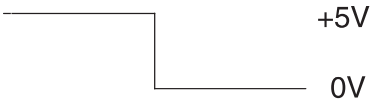
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN51-13	nLPOW1	PS PCB CN11-13		Power Control
CN51-14	nLPOW2	PS PCB CN11-14		Power Control
CN51-15	nVCNT	PS PCB CN11-15		+24 VDC Power Supply Control Signal

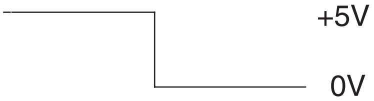
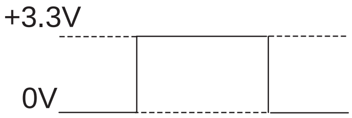
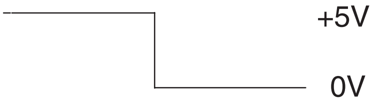
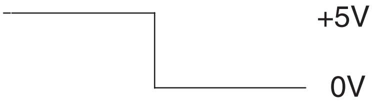
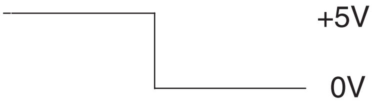
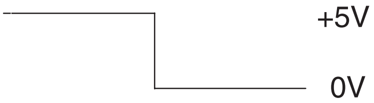
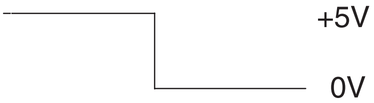
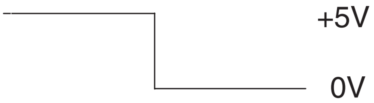
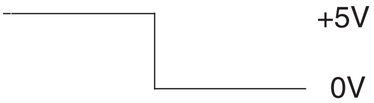
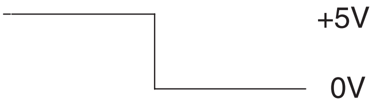
CN52

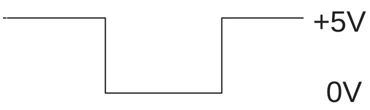
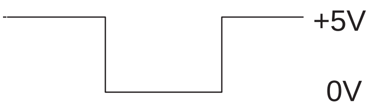
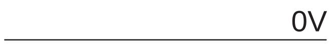
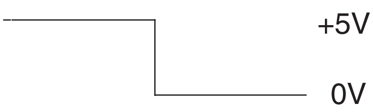
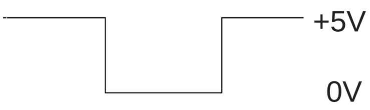
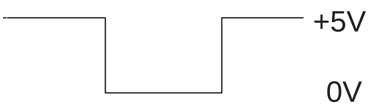
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN52-1	+24V	PNL1 PCB CN220-1		+24 VDC Power Supply
CN52-2	GND	PNL1 PCB CN220-2		Ground
CN52-3	GND	PNL1 PCB CN220-3		Ground
CN52-4	GND	PNL1 PCB CN220-4		Ground
CN52-5	+5VP	PNL1 PCB CN220-5		+5 VDC Power Supply
CN52-6	+5v	PNL1 PCB CN220-6		+5 VDC Power Supply
CN52-7	PNLRXD	PNL1 PCB CN220-7		PNL Reception Data Signal
CN52-8	PNLTXD	PNL1 PCB CN220-8		PNL Transmission Data Signal

SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN52-9	nPNLRST	PNL1 PCB CN220-9	 +3.3V RESET 0V	Panel Reset Signal
CN52-10	nLPOW2	PNL1 PCB CN220-10		Power Control
CN52-11	nLPOW1	PNL1 PCB CN220-11		Power Control
CN52-12	nSLPKY	PNL1 PCB CN220-12	 +3.3V PRESSED 0V	Energy Saver Key Signal
CN52-13	nWAKE	PNL1 PCB CN220-13		FAX Wake Up Signal
CN52-16	nVCNT	PNL1 PCB CN220-16		+24 VDC Power Supply Control Signal

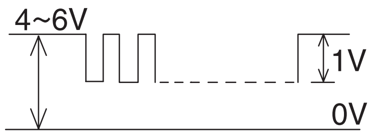
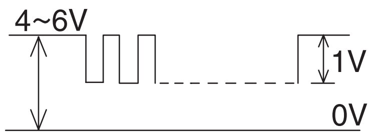
CN53

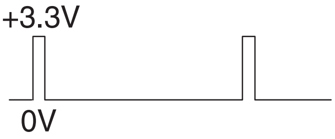
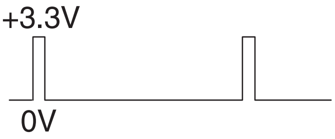
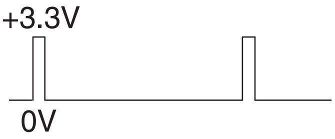
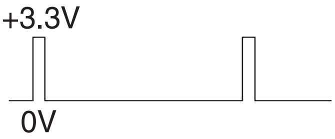
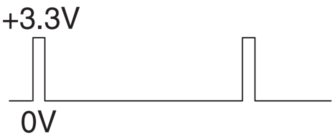
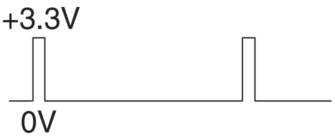
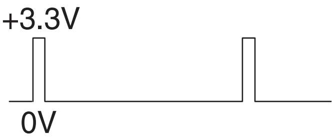
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN53-1	nPRDY	SPC PCB CN717-1		Printer Ready Signal
CN53-2	nVRDY	SPC PCB CN717-2		VSYNC Reset Signal
CN53-3	nPACK	SPC PCB CN717-3		Printer ACK Signal
CN53-4	nATT	SPC PCB CN717-4		Attention Signal

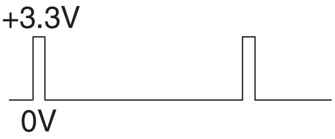
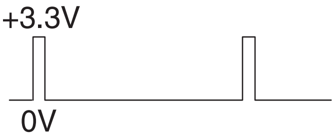
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN53-5	nDUPACK	SPC PCB CN717-5		Duplex Print Acknowledge Signal
CN53-6	pBDA	SPC PCB CN717-6		Print BDA Signal
CN53-7	pVREQ	SPC PCB CN717-7		Print ACK Request Signal
CN53-8	nSACK	SPC PCB CN717-8		Scan ACK Signal
CN53-9	nPVSYNC	SPC PCB CN717-9		Print Registration
CN53-10	nDUREQ	SPC PCB CN717-10		Duplex Print Request
CN53-11	pSENTIM	SPC PCB CN717-11		Scanner LSYNC Signal
CN53-12	nSREQ	SPC PCB CN717-12		Scanner Request Signal
CN53-13	pSPCRST	SPC PCB CN717-13		SPC Reset Signal
CN53-14	nPRGDWN	SPC PCB CN717-14		F-ROM Rewrite
CN53-15	GND	SPC PCB CN717-15		Ground
CN53-16	GND	SPC PCB CN717-16		Ground

SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN53-17	IICSCL	SPC PCB CN717-17		IIC Transmission Clock
CN53-18	IICSDA	SPC PCB CN717-18		IIC Transmission Signal
CN53-19	GND	SPC PCB CN717-19		Ground
CN53-20	nSCNWUP	SPC PCB CN717-20		Energy Saver Signal
CN53-21	SPCRXD	SPC PCB CN717-21		SPC Reception Data Signal
CN53-22	SPCTXD	SPC PCB CN717-22		SPC Transmission Data Signal

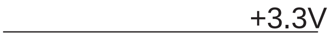
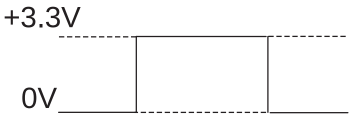
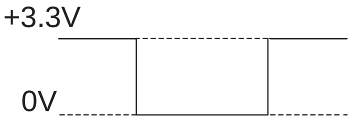
CN55

SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN55-1	VOUT2	CCD CN850-1		Graphic Data Output
CN55-2	AGND	CCD CN850-2		Ground
CN55-3	VOUT1	CCD CN850-3		Graphic Data Output
CN55-4	AGND	CCD CN850-4		Ground
CN55-5	AGND	CCD CN850-5		Ground

SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN55-6	AGND	CCD CN850-6	0V	Ground
CN55-7	+12V	CCD CN850-7	+12V	+12 VDC Power Supply
CN55-8	AGND	CCD CN850-8	0V	Ground
CN55-9	GND	CCD CN850-9	0V	Ground
CN55-10	GND	CCD CN850-10	0V	Ground
CN55-11	pPHYCP	CCD CN850-11		CCD CLOCK
CN55-12	nPHYCP	CCD CN850-12		CCD CLOCK
CN55-13	pPHYR	CCD CN850-13		CCD CLOCK
CN55-14	nPHYR	CCD CN850-14		CCD CLOCK
CN55-15	pPHY2	CCD CN850-15		CCD CLOCK
CN55-16	nPHY2	CCD CN850-16		CCD CLOCK
CN55-17	pPHY1	CCD CN850-17		CCD CLOCK

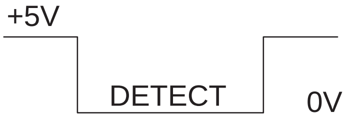
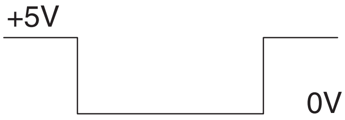
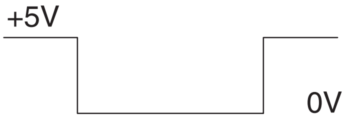
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN55-18	nPHY1	CCD CN850-18		CCD CLOCK
CN55-19	FSH	CCD CN850-19		Transfer Gate Clock
CN55-20	+5v	CCD CN850-20		+5 VDC Power Supply

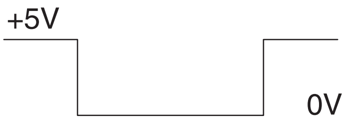
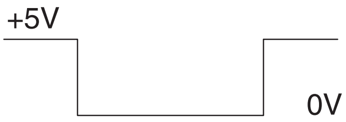
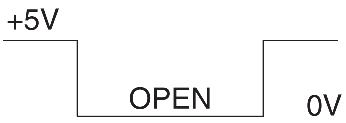
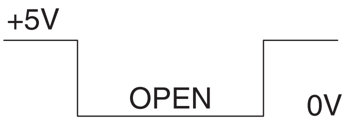
CN57

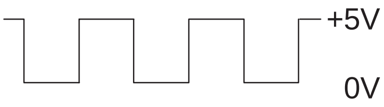
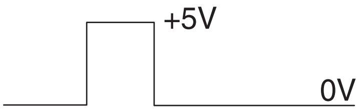
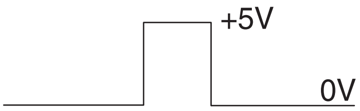
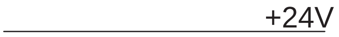
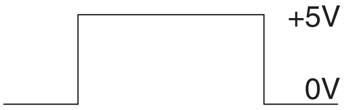
SC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN57-1	+3.3V	LSU CN2-1		+3.3 VDC Power Supply
CN57-2	GND	LSU CN2-2		Ground
CN57-3	LDI+	LSU CN2-3		Laser Diode Control +
CN57-4	LDI-	LSU CN2-4		Laser Diode Control -

2.10.3. SPC PC Board

CN650

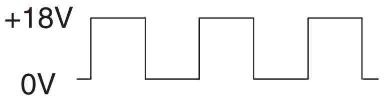
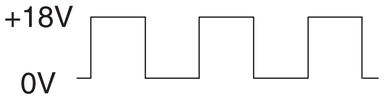
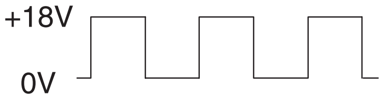
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN650-1	+5VP	ADF PCB CN21-1		+5 VDC Power Supply
CN650-2	MGND	ADF PCB CN21-2		Ground
CN650-3	GND	ADF PCB CN21-3		Ground
CN650-4	+24V	ADF PCB CN21-4		+24 VDC Power Supply
CN650-5	nAAPNT	ADF PCB CN21-5		Original Detection Signal
CN650-6	N.C.	ADF PCB CN21-6		No Connection
CN650-7	nAB4SN	ADF PCB CN21-7		Original Width Detection Signal
CN650-8	nAA3SN	ADF PCB CN21-8		Original Width Detection Signal
CN650-9	nAADL1	ADF PCB CN21-9		Original Length Detection Signal
CN650-10	nAADL2	ADF PCB CN21-10		Original Length Detection Signal
CN650-11	nAB2SN	ADF PCB CN21-11		Duplex Eject Detection Signal

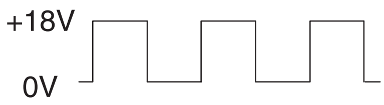
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN650-12	nAB1SN	ADF PCB CN21-12		Read Point Detection Signal
CN650-13	nAEJC	ADF PCB CN21-13		Original Eject Detection Signal
CN650-14	nAREV	ADF PCB CN21-14		ADF Exit Cover Open Detection Signal
CN650-15	nAOAC	ADF PCB CN21-15		ADF Cover Open Detection Signal
CN650-16	nAKEEP1	ADF PCB CN21-16		Reversing 1 Guide Solenoid Control Signal
CN650-17	nAKEEP2	ADF PCB CN21-17		Reversing 1 Guide Solenoid Control Signal
CN650-18	nAPACHG	ADF PCB CN21-18		Release Lever Plate Solenoid Control Signal
CN650-19	nAPICR	ADF PCB CN21-19		Release Lever Plate Solenoid Control Signal
CN650-20	nSTAMP	ADF PCB CN21-20		Stamp Control Signal
CN650-21	nACLH1	ADF PCB CN21-21		Feed 2 Roller Clutch Control Signal
CN650-22	nACLH2	ADF PCB CN21-22		Paper Feed Roller Clutch Control Signal

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN650-23	nACLH3	ADF PCB CN21-23		Inverting Roller Clutch Control Signal
CN650-24	nACLOCKAD1	ADF PCB CN21-24		ADF Motor Control Clock Signal
CN650-25	nASTROAD1	ADF PCB CN21-25		ADF Motor Control Strobe Signal
CN650-26	pADATA1A	ADF PCB CN21-26		ADF Motor Control Signal
CN650-27	pADATA1B	ADF PCB CN21-27		ADF Motor Control Signal
CN650-28	+24V	ADF PCB CN21-28		+24 VDC Power Supply
CN650-29	GND	ADF PCB CN21-29		Ground
CN650-30	+24V	ADF PCB CN21-30		+24 VDC Power Supply
CN650-31	GND	ADF PCB CN21-31		Ground
CN650-32	DAA1	ADF PCB CN21-32		ADF Motor Current Control Signal
CN650-33	MGND	ADF PCB CN21-33		Ground
CN650-34	MGND	ADF PCB CN21-34		Ground

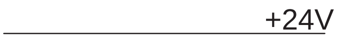
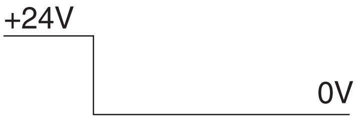
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN650-35	nSADFON	ADF PCB CN21-35	+5V (For i-ADF) +0V (For ADF)	ADF Detection Signal
CN650-36	nDADFON	ADF PCB CN21-36		ADF Option Detection Signal
CN650-37	+24V	ADF PCB CN21-37	+24V	+24 VDC Power Supply
CN650-38	MGND	ADF PCB CN21-38	0V	Ground
CN650-39	+5v	ADF PCB CN21-39	+5V	+5 VDC Power Supply
CN650-40	+5v	ADF PCB CN21-40	+5V	+5 VDC Power Supply

CN655

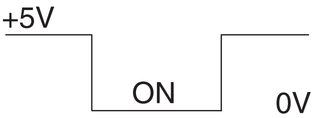
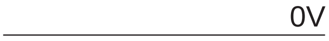
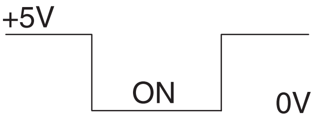
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN655-1	OUTA	Scanning Motor -1		Motor Control Signal
CN655-3	nOUTA	Scanning Motor -2		Motor Control Signal
CN655-2	+24V	Scanning Motor -3	+24V	+24 VDC Power Supply
CN655-4	OUTB	Scanning Motor -4		Motor Control Signal
CN655-5	+24V	Scanning Motor -5	+24V	+24 VDC Power Supply

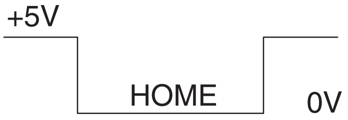
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN655-6	nOUTB	Scanning Motor -6		Motor Control Signal

CN656

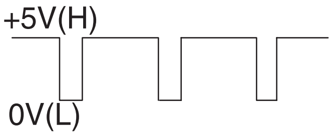
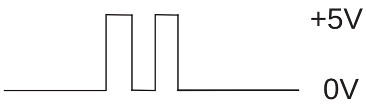
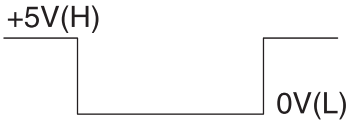
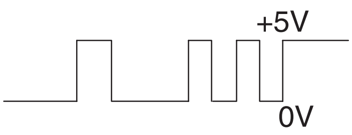
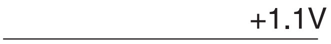
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN656-1	+24V	INV PCB CN1-1		+24 VDC Power Supply
CN656-2	+24V	INV PCB CN1-2		+24 VDC Power Supply
CN656-3	nFLON	INV PCB CN1-3		Inverter Ground
CN656-4	MGND	INV PCB CN1-4		Ground
CN656-5	MGND	INV PCB CN1-5		Ground

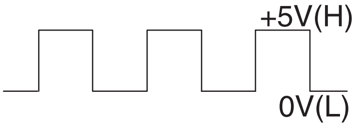
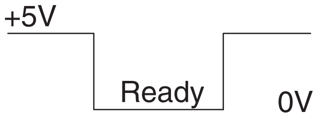
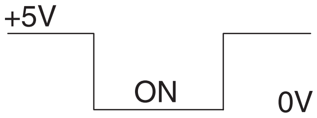
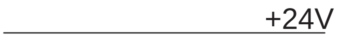
CN657

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN657-1	+5VP	SNS PCB -1		+5 VDC Power Supply
CN657-2	nANG	SNS PCB -2		Platen Cover Angle
CN657-3	GND	SNS PCB -3		Ground
CN657-4	nBDOOR	SNS PCB -4		Platen Cover Open Detection Signal

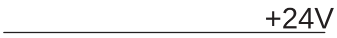
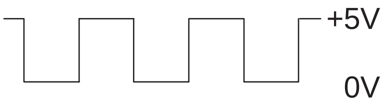
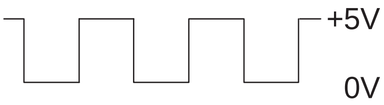
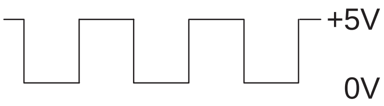
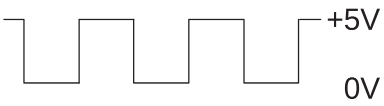
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN657-5	nORI	Home Position Sensor -1		Home Position Detection Signal
CN657-6	GND	Home Position Sensor -2		Ground
CN657-7	LDORI	Home Position Sensor -3		Photo Sensor DC Drive Voltage

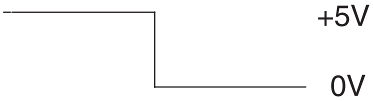
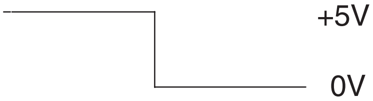
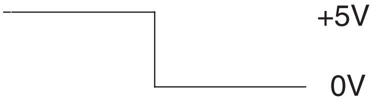
CN701

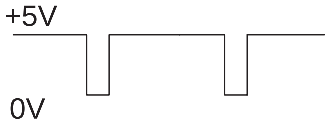
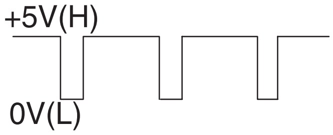
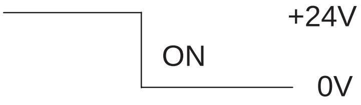
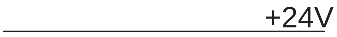
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN701-1	L5V	LSU CN1-1		Laser Circuit +5VDC Power Supply
CN701-2	GND	LSU CN1-2		Ground
CN701-3	S/H	LSU CN1-3		Sample Hold Signal
CN701-4	HSYNC	LSU CN1-4		Horizontal Synchronous Signal
CN701-5	LDEN	LSU CN1-5		Laser Control
CN701-6	RETRACE	LSU CN1-6		Laser Control
CN701-7	GND	LSU CN1-7		Ground
CN701-8	POWCNTV	LSU CN1-8		Laser Power Control Signal

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN701-9	PMCK	LSU CN3-1		Polygon Motor Clock
CN701-10	PMRDY	LSU CN3-2		Polygon Motor Ready Signal
CN701-11	PMON	LSU CN3-3		Polygon Motor Rotation Signal
CN701-12	MGND	LSU CN3-4		Ground
CN701-13	+24VM	LSU CN3-5		+24 VDC Power Supply

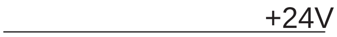
CN702

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN702-1	+24VM	PS PCB CN500-1		+24 VDC Power Supply
CN702-2	CPWM	PS PCB CN500-2		Charge Control DC ON/OFF PWM
CN702-3	GPWM	PS PCB CN500-3		Grid Control ON/OFF PWM
CN702-4	N.C.	PS PCB CN500-4		No Connection
CN702-5	DDCPWM	PS PCB CN500-5		Development Control DC ON/OFF PWM
CN702-6	TPWM	PS PCB CN500-6		Transfer Control Transfer Output

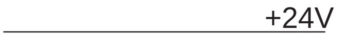
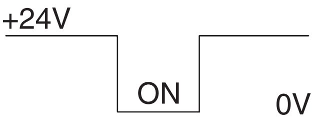
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN702-7	TC	PS PCB CN500-7	 +5V 0V	Transfer Control Cleaning Output
CN702-8	CCRMT	PS PCB CN500-8	 +5V 0V	Charge Leak Detection Signal
CN702-9	MGND	PS PCB CN500-9	0V	Ground
CN702-10	+24V	PS/LSU Fan -1	+24V	+24 VDC Power Supply
CN702-11	nFNRDTP	PS/LSU Fan -2	 +5V 0V	PS Fan Ready Signal
CN702-12	MGND	PS/LSU Fan -3	0V	Ground
CN702-13	+5VP	PS PCB CN12-1	+5V	+5 VDC Power Supply
CN702-14	+5v	PS PCB CN12-2	+5V	+5 VDC Power Supply
CN702-15	+5v	PS PCB CN12-3	+5V	+5 VDC Power Supply
CN702-16	GND	PS PCB CN12-4	0V	Ground
CN702-17	GND	PS PCB CN12-5	0V	Ground
CN702-18	GND	PS PCB CN12-6	0V	Ground

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN702-19	ZCRS	PS PCB CN12-7		Heater Control Signal
CN702-20	SSR	PS PCB CN12-8		Heater Control Signal
CN702-21	ACSW	PS PCB CN12-9		Fuser Relay
CN702-22	+24VD1	PS PCB CN12-10		+24 VDC Power Supply

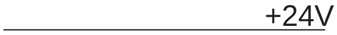
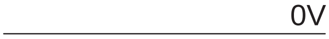
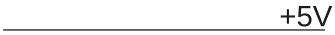
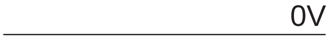
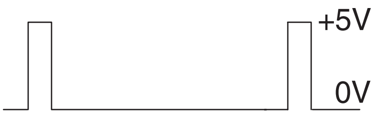
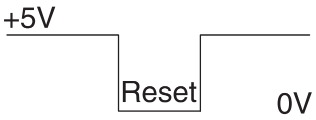
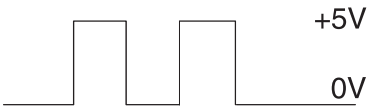
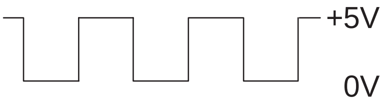
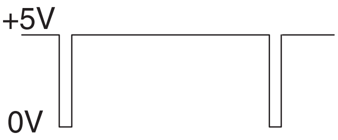
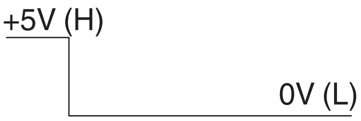
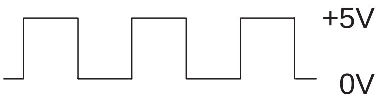
CN703

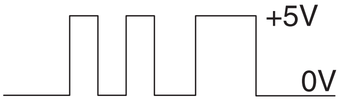
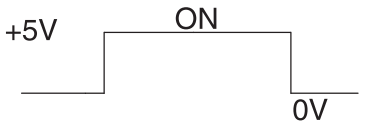
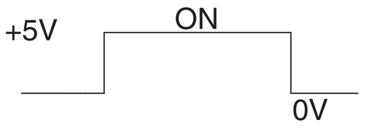
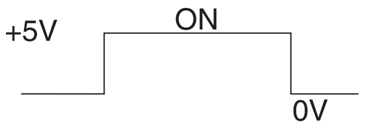
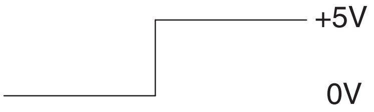
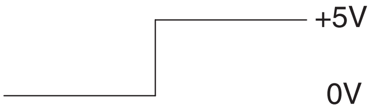
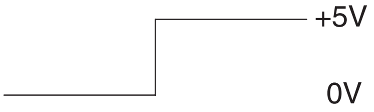
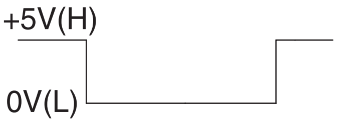
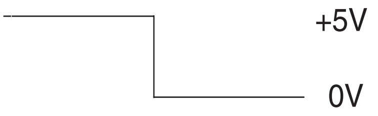
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN703-1	MGND	PS PCB CN10-1		Ground
CN703-2	MGND	PS PCB CN10-2		Ground
CN703-3	+24V	PS PCB CN10-3		+24 VDC Power Supply
CN703-4	+24V	PS PCB CN10-4		+24 VDC Power Supply

CN706

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN706-1	+24VM	1st Tray Lift Motor		+24 VDC Power Supply
CN706-2	LIFT1	1st Tray Lift Motor		1st Paper Tray Lift Motor Signal

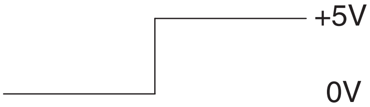
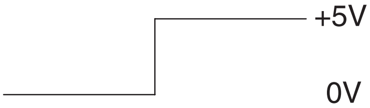
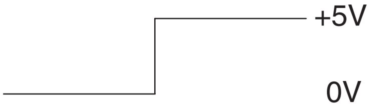
CN707

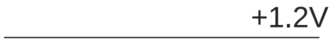
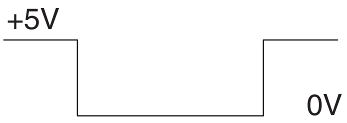
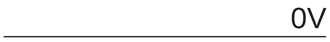
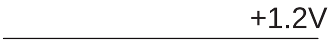
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN707-1	+24VM	CST2 PCB CN770-3		+24 VDC Power Supply
CN707-2	MGND	CST2 PCB CN770-4		Ground
CN707-3	+5v	CST2 PCB CN770-5		+5 VDC Power Supply
CN707-4	GND	CST2 PCB CN770-6		Ground
CN707-5	OP3FLT	CST2 PCB CN770-7		Option Feed FIFO Latch
CN707-6	OP3RST	CST2 PCB CN770-8		Option Feed FIFO Reset
CN707-7	OP3FOT	CST2 PCB CN770-9		Option Feed FIFO Output
CN707-8	OP3FCK	CST2 PCB CN770-10		Option Feed FIFO Clock
CN707-9	OP3FLD	CST2 PCB CN770-11		Option Feed FIFO Load
CN707-10	OP3ENB	CST2 PCB CN770-12		Option Feed FIFO Enable
CN707-11	OP3CLK	CST2 PCB CN770-13		3rd Paper Tray Motor Clock

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN707-12	OP3FDIN	CST2 PCB CN770-14		Option Feed FIFO Input
CN707-13	ADF2	CST2 PCB CN771-1		2nd Paper Tray Feed Roller Drive Signal
CN707-14	MRCLH2	CST2 PCB CN771-2		2nd Paper Tray Intermediate Roller Clutch Drive Signal
CN707-15	LIFT2	CST2 PCB CN771-3		2nd Paper Tray Lift Motor Signal
CN707-16	PCHK2	CST2 PCB CN771-4		2nd Paper Tray Paper Detection Signal
CN707-17	CST2	CST2 PCB CN771-5		2nd Paper Tray Detection Signal
CN707-18	UPLIMIT2	CST2 PCB CN771-6		2nd Paper Tray Paper Level Signal
CN707-19	FDPCHK2	CST2 PCB CN771-7		2nd Paper Tray Paper Registration Detection Signal
CN707-20	JAMDOR2	CST2 PCB CN771-8		2nd Paper Tray Jam Access Cover Open Detection Signal
CN707-21	CSTOP	CST2 PCB CN771-9		2nd Paper Feed Module Detection Signal
CN707-23	+24VM	CST2 PCB CN771-11		+24 VDC Power Supply

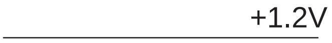
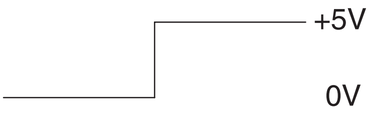
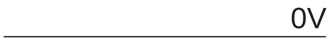
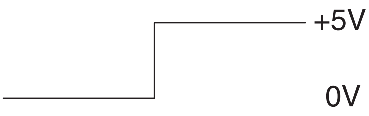
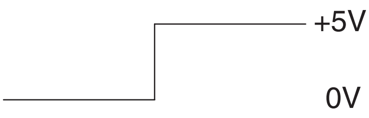
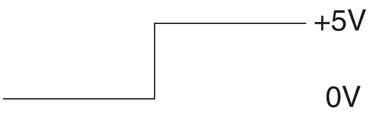
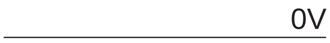
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN707-24	MGND	CST2 PCB CN771-12	0V	Ground
CN707-25	+24VM	CST2 PCB CN770-15	+24V	+24 VDC Power Supply
CN707-26	MGND	CST2 PCB CN770-16	0V	Ground

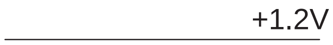
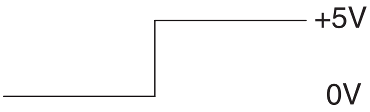
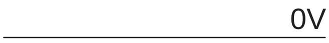
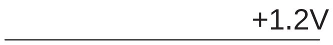
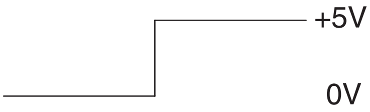
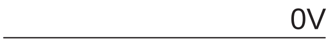
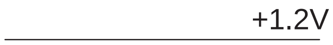
CN709

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN709-1	PCHK1	No Paper Sensor -1		1st Paper Tray Paper Detection Signal
CN709-2	GND	No Paper Sensor -2	0V	Ground
CN709-3	LDPSEN	No Paper Sensor -3	+1.2V	Photo Sensor DC Drive Voltage
CN709-4	UPLIMIT	Upper Limit Sensor -1		1st Paper Tray Paper Level Signal
CN709-5	GND	Upper Limit Sensor -2	0V	Ground
CN709-6	LDUPLSEN	Upper Limit Sensor -3	+1.2V	Photo Sensor DC Drive Voltage
CN709-7	CASET	1st Tray Detection Sensor -1		Paper Tray Detection Signal (1st Feeder)
CN709-8	GND	1st Tray Detection Sensor -2	0V	Ground

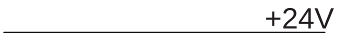
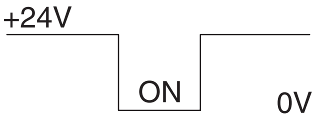
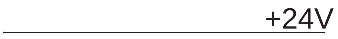
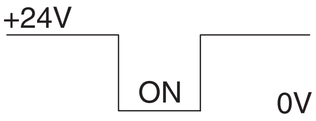
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN709-9	LDCSTSEN	1st Tray Detection Sensor -3		Photo Sensor DC Drive Voltage
CN709-10	RSEN	Registration Roller Sensor -1		Registration Sensor Signal
CN709-11	GND	Registration Roller Sensor -2		Ground
CN709-12	LDRRSEN	Registration Roller Sensor -3		Photo Sensor DC Drive Voltage

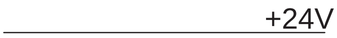
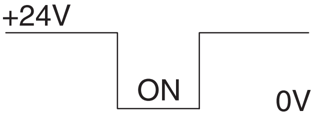
CN712

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN712-1	LDSSN	SSN PCB CN42-1		Photo Sensor DC Drive Voltage
CN712-2	nA3SEN	SSN PCB CN42-2		Sheet Bypass Paper Size Detection Signal
CN712-3	GND	SSN PCB CN42-3		Ground
CN712-4	nB4SEN	SSN PCB CN42-4		Sheet Bypass B4 Paper Detection Signal
CN712-5	nA5SEN	SSN PCB CN42-5		Sheet Bypass Paper Size Detection Signal
CN712-6	nPEDSEN	Bypass Feed No Paper Sensor -1		Sheet Bypass Paper Detection Signal
CN712-7	GND	Bypass Feed No Paper Sensor -2		Ground

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN712-8	LDPED	Bypass Feed No Paper Sensor -3		Photo Sensor DC Drive Voltage
CN712-9	nDUPSEN	Duplex Sensor -1		ADU Sensor Signal
CN712-10	GND	Duplex Sensor -2		Ground
CN712-11	LDDUX	Duplex Sensor -3		Photo Sensor DC Drive Voltage
CN712-14	nHFPESEN	Bypass Feed Sensor -1		Bypass Feed Sensor Signal
CN712-15	GND	Bypass Feed Sensor -2		Ground
CN712-16	LDHFPE	Bypass Feed Sensor -3		Photo Sensor DC Drive Voltage

CN715

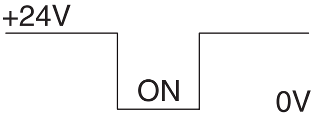
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN715-1	+24VM	Registration Roller Clutch -1		+24 VDC Power Supply
CN715-2	RRCLCNT	Registration Roller Clutch -2		Registration Roller Drive Signal
CN715-3	+24VM	Paper Feed Clutch -1		+24 VDC Power Supply
CN715-4	PFCLCNT	Paper Feed Clutch -2		Paper Feed Clutch Drive Signal

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN715-5	+24VM	Bypass Feed Solenoid -1		+24 VDC Power Supply
CN715-6	HFSOL	Bypass Feed Solenoid -2		Temp Humidity Sensor Signal

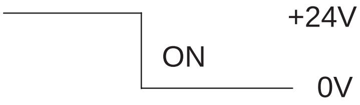
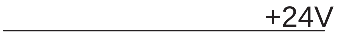
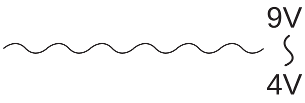
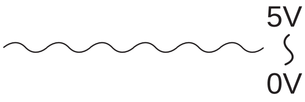
CN717

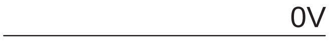
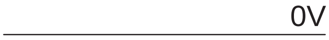
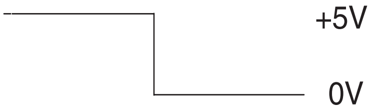
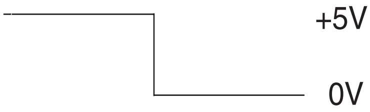
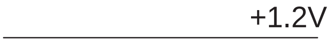
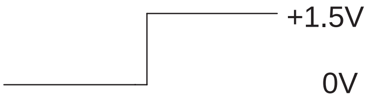
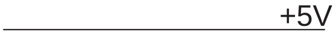
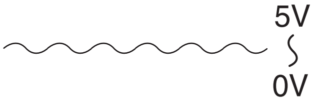
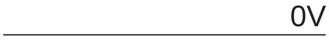
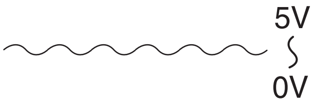
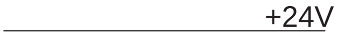
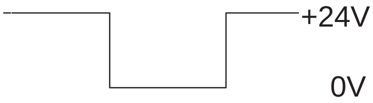
Refer to SC PC Board .

CN719

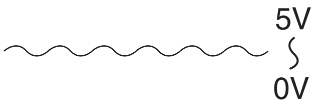
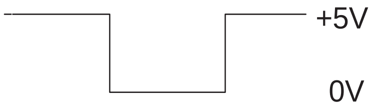
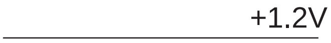
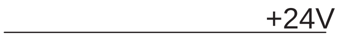
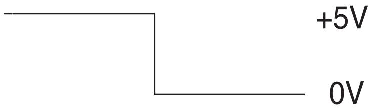
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN719-1	+24VM	Duplex Solenoid		+24 VDC Power Supply
CN719-2	nDUXSOL	Duplex Solenoid		ADU Solenoid Control Signal

CN720

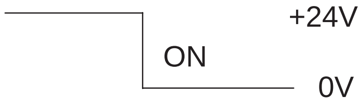
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN720-3	+24VM	PCL PCB -1		+24 VDC Power Supply
CN720-4	ELPCNT	PCL PCB -2		Discharge Lamp
CN720-5	+24VM	Toner Density Sensor -2		+24 VDC Power Supply
CN720-6	TDREF	Toner Density Sensor -1		Toner Density Reference Sensor
CN720-7	TDSEN	Toner Density Sensor -3		Toner Density Sensor Signal

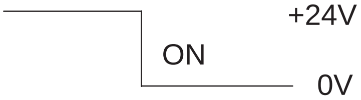
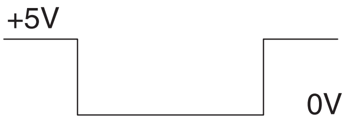
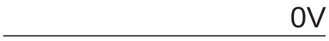
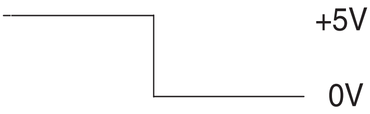
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN720-8	GND	Toner Density Sensor -4		Ground
CN720-12	GND	Waste Toner Sensor -1		Ground
CN720-13	nWTBSEN	Waste Toner Sensor -2		Toner Waste Container Detection Sensor Signal
CN720-14	nTFSEN	Waste Toner Sensor -3		Toner Waste Sensor
CN720-15	LDWTB	Waste Toner Sensor -4		Photo Sensor DC Drive Voltage
CN720-16	LDTF	Waste Toner Sensor -5		Photo Sensor DC Drive Voltage
CN720-17	+5v	Humidity Sensor -1		+5 VDC Power Supply
CN720-18	HUMISN	Humidity Sensor -2		Temp Humidity Sensor Signal
CN720-19	GND	Humidity Sensor -3		Ground
CN720-20	TEMPSN	Humidity Sensor -4		Temp Humidity Sensor Signal
CN720-21	+24VM	Total Counter -1		+24 VDC Power Supply
CN720-22	nCTCNT	Total Counter -2		Counter Drive Signal

CN721

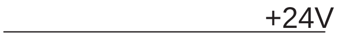
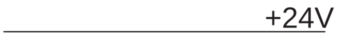
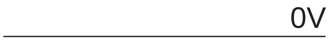
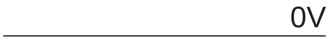
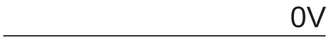
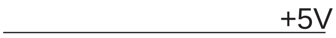
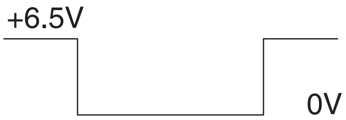
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN721-1	THERM1	Thermistor -1		Thermistor Output Signal
CN721-2	THERM2	Thermistor -2		Ground
CN721-3	nHEXSEN	Paper Exit Sensor -1		Paper Exit Sensor Signal
CN721-4	GND	Paper Exit Sensor -2		Ground
CN721-5	LDHEX	Paper Exit Sensor -3		Photo Sensor DC Drive Voltage
CN721-10	+24VFL	Exit Fan -1		+20 / +24 VDC Power Supply
CN721-11	nFNRDT	Exit Fan -2		Fan Ready Signal
CN721-12	MGND	Exit Fan -3		Ground

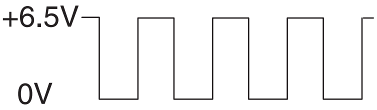
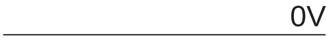
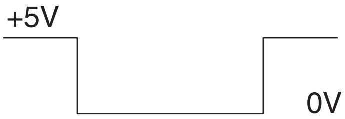
CN722

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN722-1	+24VM	Toner Bottle Motor -1		+24 VDC Power Supply
CN722-2	BMCNT	Toner Bottle Motor -2		Toner Bottle Motor Control Signal
CN722-3	+24VM	Toner Motor -1		+24 VDC Power Supply

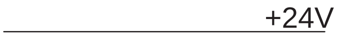
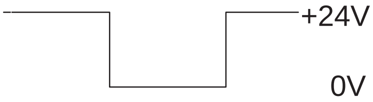
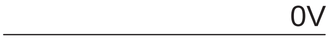
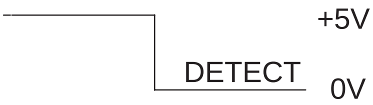
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN722-4	SMCNT	Toner Motor -2		Toner Motor Control Signal
CN722-5	BTHP	Toner Bottle Home Position Sensor -1		Toner Bottle Position Sensor Signal
CN722-6	GND	Toner Bottle Home Position Sensor -2		Ground
CN722-7	LDBTHP	Toner Bottle Home Position Sensor -3		Toner Bottle HP Sensor Signal

CN723

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN723-1	+24VM	Main Motor -1		+24 VDC Power Supply
CN723-2	+24VM	Main Motor -2		+24 VDC Power Supply
CN723-3	MGND	Main Motor -3		Ground
CN723-4	MGND	Main Motor -4		Ground
CN723-5	GND	Main Motor -5		Ground
CN723-6	+5v	Main Motor -6		+5 VDC Power Supply
CN723-7	nMMON	Main Motor -7		Main Motor Rotation Control Signal

SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN723-8	nMMCK	Main Motor -8		Main Motor Clock
CN723-9	F/R	Main Motor -9		Direction of Rotation Signal
CN723-10	nMMRDY	Main Motor -10		Main Motor Ready Signal

CN726

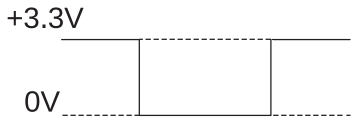
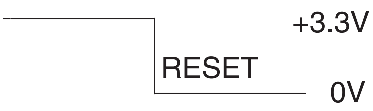
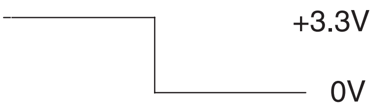
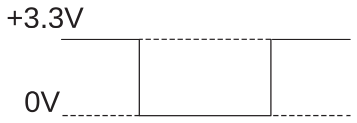
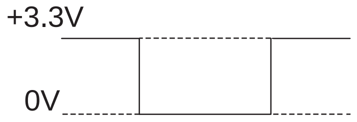
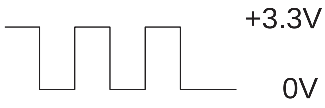
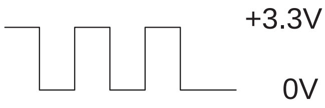
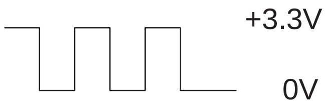
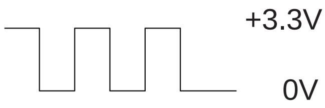
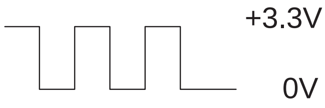
SPC PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN726-1	+24VM	Key Counter		+24 VDC Power Supply
CN726-2	KCNT	Key Counter		Key Counter Option
CN726-3	GND	Key Counter		Ground
CN726-4	KCDET	Key Counter		Key Counter Option Detection
CN726-5	N.C.			No Connection
CN726-6	N.C.			No Connection

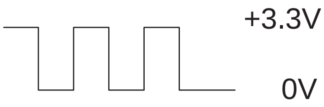
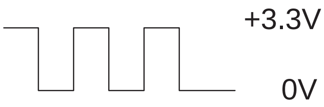
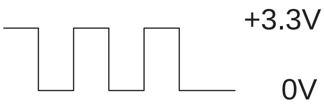
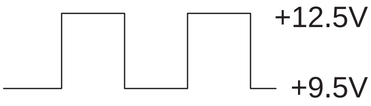
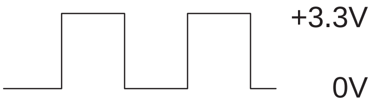
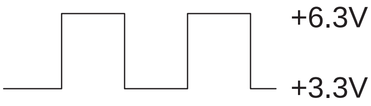
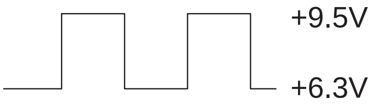
2.10.4. PNL1 PC Board

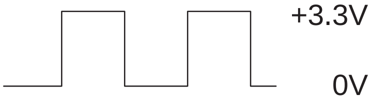
CN220

Refer to SC PC Board .

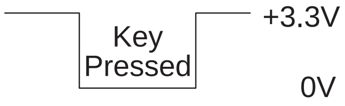
CN223

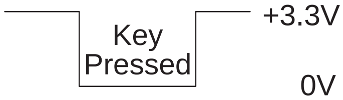
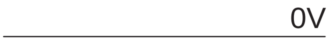
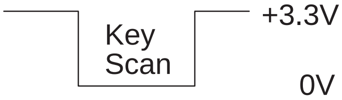
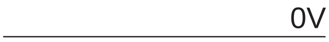
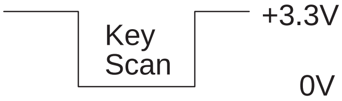
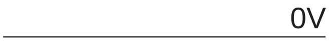
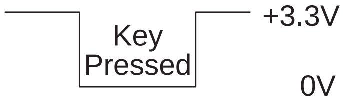
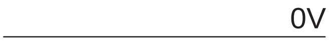
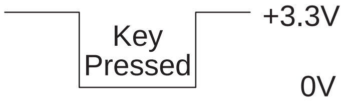
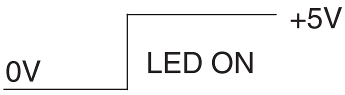
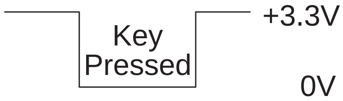
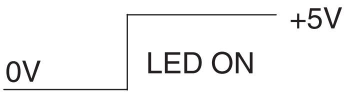
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN223-1	CSB1	LCD		Chip Select Signal
CN223-2	RESETB	LCD	 +3.3V RESET 0V	LCD Driver Reset Signal
CN223-3	RS	LCD		Register Selection Control Signal
CN223-4	RW_WRB	LCD		LCD Control Signal
CN223-5	E_RDB	LCD		Read/Write Execution Control Signal
CN223-6	DB0	LCD		Data Signal
CN223-7	DB1	LCD		Data Signal
CN223-8	DB2	LCD		Data Signal
CN223-9	DB3	LCD		Data Signal
CN223-10	DB4	LCD		Data Signal

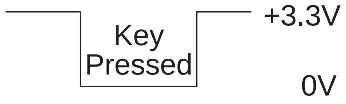
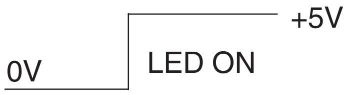
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN223-11	DB5	LCD		Data Signal
CN223-12	DB6	LCD		Data Signal
CN223-13	DB7	LCD		Data Signal
CN223-14	VDD	LCD	+3.3V	+3.3 VDC Power Supply
CN223-15	VCL	LCD	+3.3V	LCD Power Supply
CN223-16	VSS	LCD	0V	Ground
CN223-17	VOUT	LCD	+12.5V	Voltage Converter Input / Output
CN223-18	C4+	LCD	+12.5V	Capacitor 4 Positive Connection Pin for Converter
CN223-19	C3+	LCD		Capacitor 3 Positive Connection Pin for Converter
CN223-20	C1-	LCD		Capacitor 1 Negative Connection Pin for Converter
CN223-21	C1+	LCD		Capacitor 1 Positive Connection Pin for Converter
CN223-22	C2+	LCD		Capacitor 2 Positive Connection Pin for Converter

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN223-23	C2-	LCD		Capacitor 2 Negative Connection Pin for Converter
CN223-24	V1	LCD	+6.7V	LCD Driver Supply Voltages
CN223-25	V2	LCD	+5.3V	LCD Driver Supply Voltages
CN223-26	V3	LCD	+2.6V	LCD Driver Supply Voltages
CN223-27	V4	LCD	+1.4V	LCD Driver Supply Voltages
CN223-28	V0	LCD	+8V	LCD Driver Supply Voltages
CN223-29	PS	LCD	+3.3V	Parallel / Serial Data Input Select Signal
CN223-30	HPMB	LCD	+3.3V	LCD driver Power Control Signal

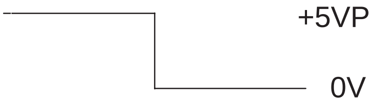
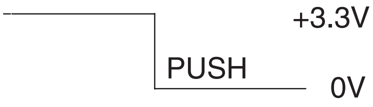
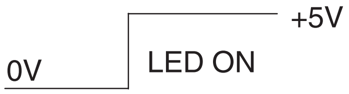
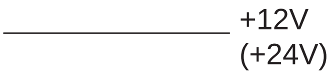
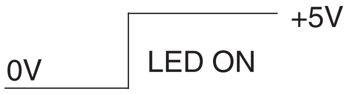
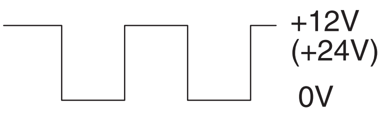
CN230

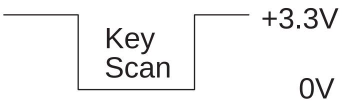
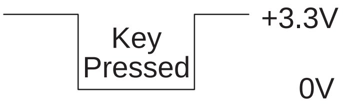
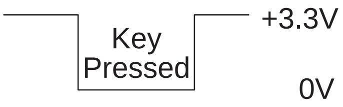
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN230-1	LED0	PNL2 PCB CN250-1	0V	PNL LED Control Signal
CN230-2	KIN7	PNL2 PCB CN250-2		PNL Key Signal (Key Line)
CN230-3	LED1	PNL2 PCB CN250-3	0V	PNL LED Control Signal

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN230-4	KIN6	PNL2 PCB CN250-4	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN230-5	LED2	PNL2 PCB CN250-5		PNL LED Control Signal
CN230-6	SCN0	PNL2 PCB CN250-6	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN230-7	LED3	PNL2 PCB CN250-7		PNL LED Control Signal
CN230-8	SCN1	PNL2 PCB CN250-8	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN230-9	LED4	PNL2 PCB CN250-9		PNL LED Control Signal
CN230-10	KIN5	PNL2 PCB CN250-10	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN230-11	LED5	PNL2 PCB CN250-11		PNL LED Control Signal
CN230-12	KIN4	PNL2 PCB CN250-12	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN230-13	LEDCT2	PNL2 PCB CN250-13		PNL LED Control Signal
CN230-14	KIN3	PNL2 PCB CN250-14	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN230-15	LEDCT3	PNL2 PCB CN250-15		PNL LED Control Signal

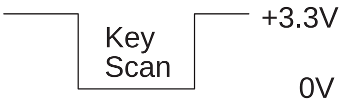
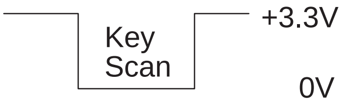
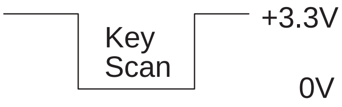
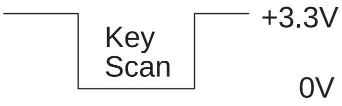
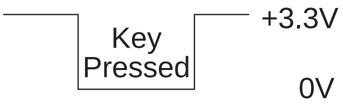
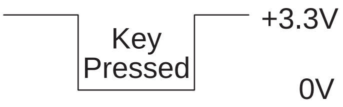
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN230-16	KIN2	PNL2 PCB CN250-16	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN230-17	LEDCT4	PNL2 PCB CN250-17		PNL LED Control Signal
CN230-18	BAT+	PNL2 PCB CN250-18		Lithium Battery

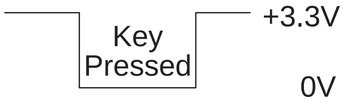
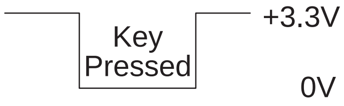
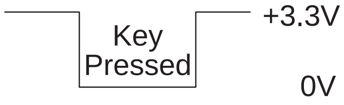
CN231

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN231-1	+SLP	PNL2 PCB CN251-1		Energy Saver Lamp LED Power Supply
CN231-2	nLEDSLP	PNL2 PCB CN251-2		Energy Saver Lamp LED Control Signal
CN231-3	nSLPKY	PNL2 PCB CN251-3		Energy Saver Key Signal
CN231-4	GND	PNL2 PCB CN251-4		Ground
CN231-5	LEDCT0	PNL2 PCB CN251-5		PNL LED Control Signal
CN231-6	BZ+	PNL2 PCB CN251-6		Buzzer Signal (+) +24V: Loud
CN231-7	LEDCT1	PNL2 PCB CN251-7		PNL LED Control Signal
CN231-8	BZ-	PNL2 PCB CN251-8		Buzzer Signal +24V: Loud

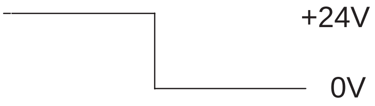
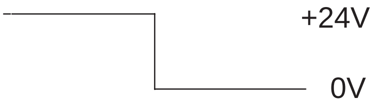
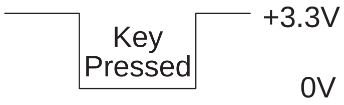
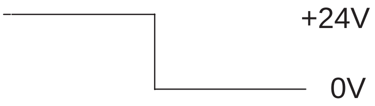
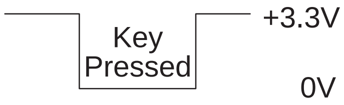
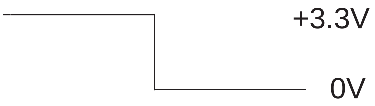
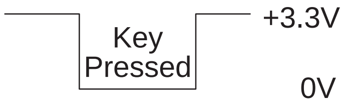
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN231-9	LED6	PNL2 PCB CN251-9		PNL LED Control Signal
CN231-10	SCN2	PNL2 PCB CN251-10	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN231-11	KIN0	PNL2 PCB CN251-11	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN231-12	KIN1	PNL2 PCB CN251-12	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)

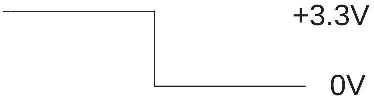
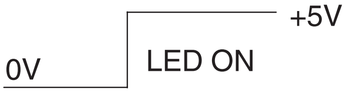
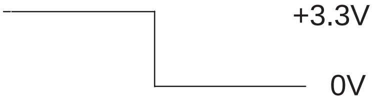
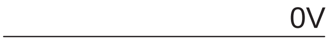
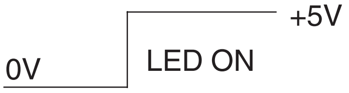
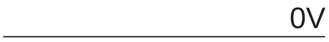
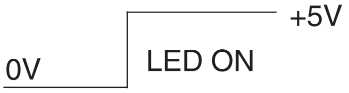
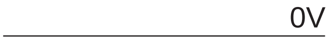
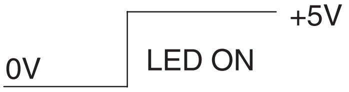
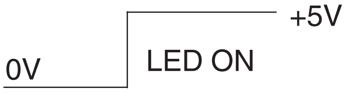
CN232

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN232-1	SCN4	PNL3 PCB CN252-1	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN232-2	SCN5	PNL3 PCB CN252-2	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN232-3	SCN3	PNL3 PCB CN252-3	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN232-4	SCN6	PNL3 PCB CN252-4	 +3.3V Key Scan 0V	PNL Key Signal (Scan Line)
CN232-5	KIN3	PNL3 PCB CN252-5	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)
CN232-6	N.C.	PNL3 PCB CN252-6		No Connection
CN232-7	KIN2	PNL3 PCB CN252-7	 +3.3V Key Pressed 0V	PNL Key Signal (Key Line)

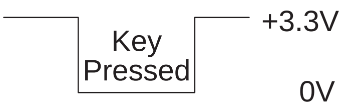
PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN232-8	KIN7	PNL3 PCB CN252-8	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN232-9	KIN1	PNL3 PCB CN252-9	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN232-10	KIN0	PNL3 PCB CN252-10	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)

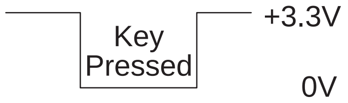
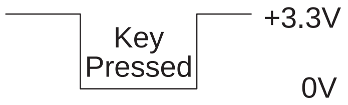
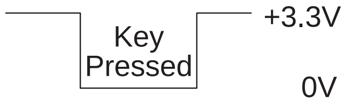
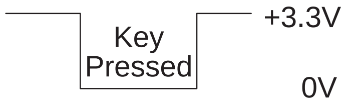
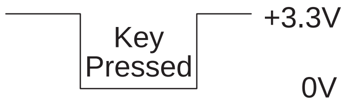
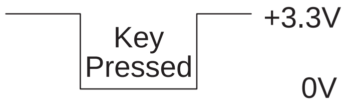
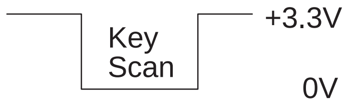
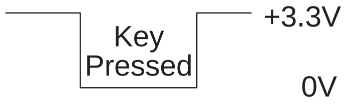
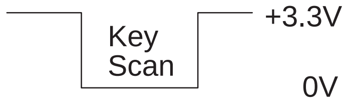
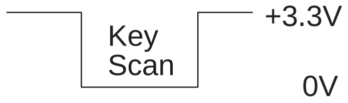
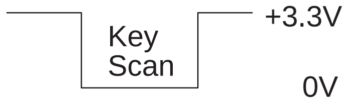
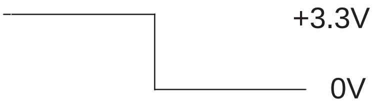
CN233

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN233-1	+DAT	PNL3 PCB CN253-1		DATA Lamp LED Power Supply
CN233-2	N.C.	PNL3 PCB CN253-2		No Connection
CN233-3	+ALM	PNL3 PCB CN253-3		ALARM Lamp LED Power Supply
CN233-4	KIN4	PNL3 PCB CN253-4	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN233-5	+ACT	PNL3 PCB CN253-5		ACTIVE Lamp LED Power Supply
CN233-6	KIN5	PNL3 PCB CN253-6	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN233-7	nLEDACT	PNL3 PCB CN253-7		ACTIVE Lamp LED Control Signal
CN233-8	KIN6	PNL3 PCB CN253-8	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN233-9	nLEDALM	PNL3 PCB CN253-9		ALARM Lamp LED Control Signal
CN233-10	LEDCT0	PNL3 PCB CN253-10		PNL LED Control Signal
CN233-11	nLEDDAT	PNL3 PCB CN253-11		DATA Lamp LED Control Signal
CN233-12	LED9	PNL3 PCB CN253-12		PNL LED Control Signal
CN233-13	LEDCT4	PNL3 PCB CN253-13		PNL LED Control Signal
CN233-14	LED8	PNL3 PCB CN253-14		PNL LED Control Signal
CN233-15	LEDCT3	PNL3 PCB CN253-15		PNL LED Control Signal
CN233-16	LED7	PNL3 PCB CN253-16		PNL LED Control Signal
CN233-17	LEDCT2	PNL3 PCB CN253-17		PNL LED Control Signal
CN233-18	LEDCT1	PNL3 PCB CN253-18		PNL LED Control Signal

CN234

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN234-1	KIN4	PNL4 PCB CN280-1	 +3.3V 0V Key Pressed	PNL Key Signal (Key Line)

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN234-2	KIN5	PNL4 PCB CN280-2	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-3	KIN3	PNL4 PCB CN280-3	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-4	KIN6	PNL4 PCB CN280-4	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-5	KIN2	PNL4 PCB CN280-5	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-6	KIN7	PNL4 PCB CN280-6	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-7	KIN1	PNL4 PCB CN280-7	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-8	SCN11	PNL4 PCB CN280-8	 Key Scan +3.3V 0V	PNL Key Signal (Scan Line)
CN234-9	KIN0	PNL4 PCB CN280-9	 Key Pressed +3.3V 0V	PNL Key Signal (Key Line)
CN234-10	SCN10	PNL4 PCB CN280-10	 Key Scan +3.3V 0V	PNL Key Signal (Scan Line)
CN234-11	SCN8	PNL4 PCB CN280-11	 Key Scan +3.3V 0V	PNL Key Signal (Scan Line)
CN234-12	SCN9	PNL4 PCB CN280-12	 Key Scan +3.3V 0V	PNL Key Signal (Scan Line)
CN234-13	nOPT	PNL4 PCB CN280-13		PNL4 Detection 0V: Detection

PNL1 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN234-14	GND	PNL4 PCB CN280-14	0V	Ground

2.10.5. PS PC Board

CN10
Refer to SPC PC Board .

CN11
Refer to SC PC Board .

CN12
Refer to SPC PC Board .

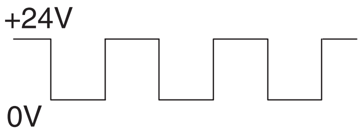
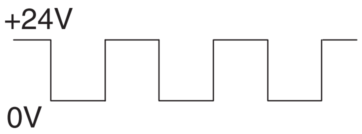
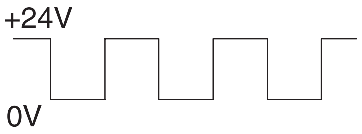
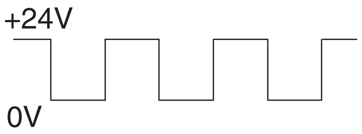
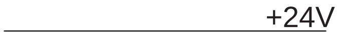
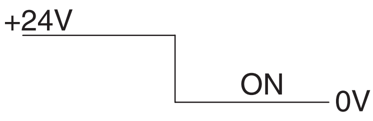
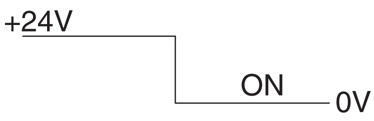
CN500
Refer to SPC PC Board .

2.10.6. ADF PC Board

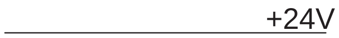
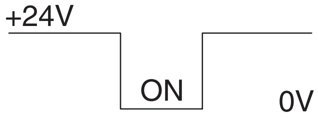
CN21

Refer to SPC PC Board .

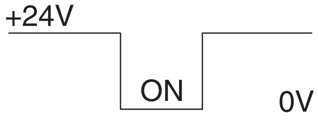
CN22

ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN22-1	OUTA	ADF Motor -1		Motor Control Signal
CN22-2	+24V	ADF Motor -2		+24 VDC Power Supply
CN22-3	IOUTA	ADF Motor -3		Motor Control Signal
CN22-4	OUTB	ADF Motor -4		Motor Control Signal
CN22-5	+24V	ADF Motor -5		+24 VDC Power Supply
CN22-6	IOUTB	ADF Motor -6		Motor Control Signal
CN22-7	+24VOPF	ADF Roller Clutch -1		+24 VDC Power Supply
CN22-8	nCCLH2	ADF Roller Clutch -4		ADF Roller Clutch Control Signal
CN22-9	+24VOPF	Feed 2 Roller Clutch -1		+24 VDC Power Supply
CN22-10	nCCLH1	Feed 2 Roller Clutch -4		Feed 2 Roller Clutch Control Signal

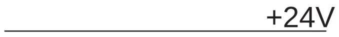
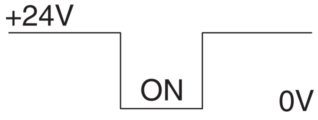
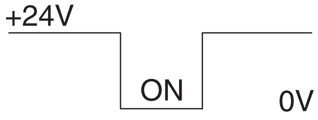
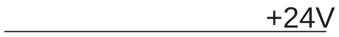
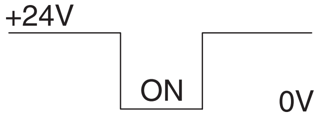
CN24

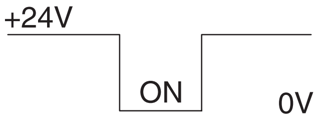
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN24-1	+24VOPF	Inverting Roller Clutch -1		+24 VDC Power Supply
CN24-2	nCCLH3	Inverting Roller Clutch -4		Inverting Roller Clutch Control Signal

CN25

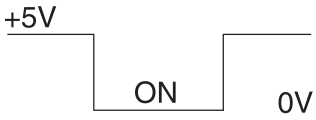
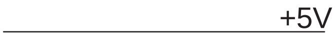
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN25-1	+24VOPF	Stamp Solenoid		+24 VDC Power Supply
CN25-2	nASTAMP	Stamp Solenoid		Stamp Control Signal

CN26

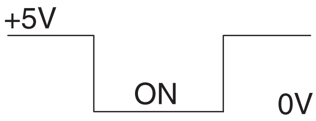
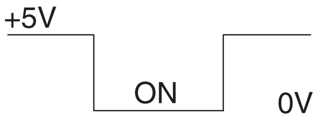
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN26-1	+24VOPC	Release Lever Plate Solenoid -1		+24 VDC Power Supply
CN26-2	nAPACHG	Release Lever Plate Solenoid -2		Release Lever Plate Solenoid Control Signal
CN26-3	nAKEEP1	Reversing Guide 1 Solenoid -1		Reversing 1 Guide Solenoid Control Signal
CN26-4	+24VOPC	Reversing Guide 1 Solenoid -2		+24 VDC Power Supply
CN26-5	nAKEEP2	Reversing Guide 1 Solenoid -3		Reversing 1 Guide Solenoid Control Signal
CN26-6	+24VOPF	Duplex 2 Guide Solenoid -1		+24 VDC Power Supply

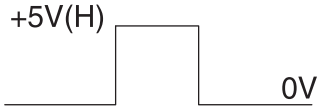
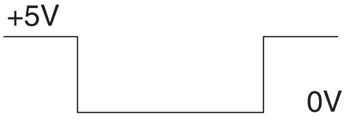
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN26-7	nAPICR	Duplex 2 Guide Solenoid -2		Release Lever Plate Solenoid Control Signal

CN27

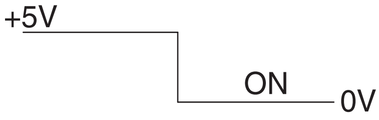
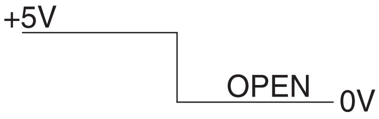
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN27-1	nAAPNT	Original Detection Sensor -1		Original Detection Signal
CN27-2	GND	Original Detection Sensor -2		Ground
CN27-3	+5v	Original Detection Sensor -3		+5 VDC Power Supply

CN28

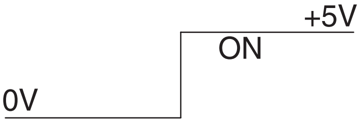
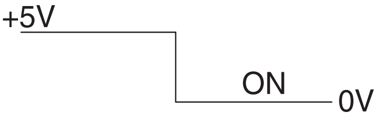
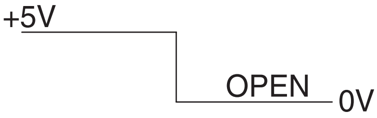
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN28-1	nAADL1	Original Lengh Sensor 1 -1		Original Length Detection Signal
CN28-2	GND	Original Lengh Sensor 1 -2		Ground
CN28-3	+5v	Original Lengh Sensor 1 -3		+5 VDC Power Supply
CN28-4	nAADL2	Original Lengh Sensor 2 -1		Original Length Detection Signal
CN28-5	GND	Original Lengh Sensor 2 -2		Ground
CN28-6	+5v	Original Lengh Sensor 2 -3		+5 VDC Power Supply

ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN28-7	nAB4S	SNS PCB CN41-4		Original Width Detection Signal
CN28-8	nAA3S	SNS PCB CN41-2		Original Width Detection Signal
CN28-9	GND	SNS PCB CN41-3	0V	Ground
CN28-10	+5v	SNS PCB CN41-1	+5V	+5 VDC Power Supply

CN29

ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN29-1	nAB1SN	Read Point Sensor -1		Read Point Detection Signal
CN29-2	GND	Read Point Sensor -2	0V	Ground
CN29-3	+5v	Read Point Sensor -3	+5V	+5 VDC Power Supply
CN29-4	nAOAC	ADF Cover Open Detection Sensor -1		ADF Cover Open Detection Signal
CN29-5	GND	ADF Cover Open Detection Sensor -2	0V	Ground
CN29-6	+5v	ADF Cover Open Detection Sensor -3	+5V	+5 VDC Power Supply

CN30

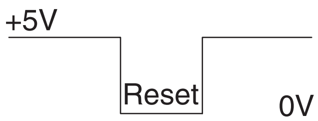
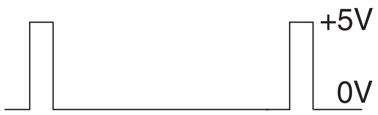
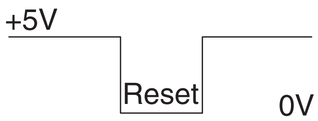
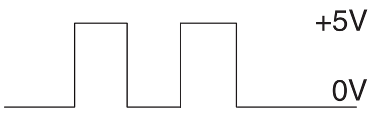
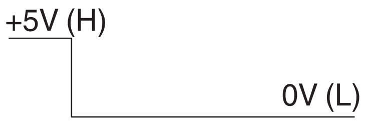
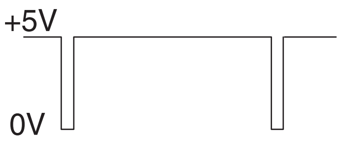
ADF PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN30-1	nAEJC	Eject Sensor -1		Original Eject Detection Signal
CN30-2	GND	Eject Sensor -2		Ground
CN30-3	+5v	Eject Sensor -3		+5 VDC Power Supply
CN30-4	nAB2SN	Duplex Eject Sensor -1		Duplex Eject Detection Signal
CN30-5	GND	Duplex Eject Sensor -2		Ground
CN30-6	+5v	Duplex Eject Sensor -3		+5 VDC Power Supply
CN30-7	nAREV	ADF Exit Cover Sensor -1		ADF Exit Cover Open Detection Signal
CN30-8	GND	ADF Exit Cover Sensor -2		Ground
CN30-9	+5v	ADF Exit Cover Sensor -3		+5 VDC Power Supply

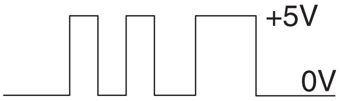
2.10.7. CST2 PC Board

CN770
Refer to SPC PC Board .

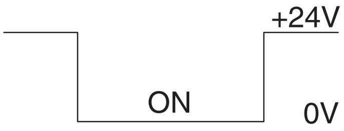
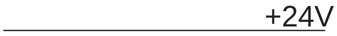
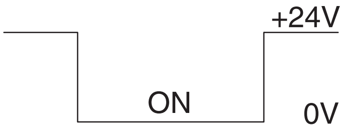
CN771
Refer to SPC PC Board .

CN772

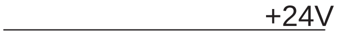
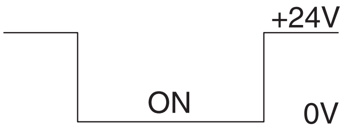
CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN772-1	+24VM	CST3 PCB CN807-1		+24 VDC Power Supply
CN772-2	MGND	CST3 PCB CN807-2		Ground
CN772-3	+5v	CST3 PCB CN807-3		+5 VDC Power Supply
CN772-4	GND	CST3 PCB CN807-4		Ground
CN772-5	OP3RST	CST3 PCB CN807-5		Option Feed FIFO Reset
CN772-6	OP3FLT	CST3 PCB CN807-6		Option Feed FIFO Latch
CN772-7	OP3FCK	CST3 PCB CN807-7		Option Feed FIFO Clock
CN772-8	OP3FOT	CST3 PCB CN807-8		Option Feed FIFO Output
CN772-9	OP3ENB	CST3 PCB CN807-9		Option Feed FIFO Enable
CN772-10	OP3FLD	CST3 PCB CN807-10		Option Feed FIFO Load

CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN772-11	OP3FDIN	CST3 PCB CN807-11		Option Feed FIFO Input
CN772-14	+24VM	CST3 PCB CN807-13		+24 VDC Power Supply
CN772-13	GND	CST3 PCB CN807-14		Ground

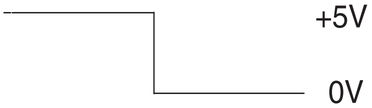
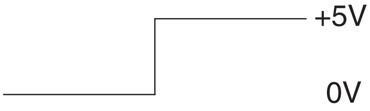
CN773

CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN773-1	+24VM	Paper Feed Clutch -1		+24 VDC Power Supply
CN773-2	ADF2	Paper Feed Clutch -2		2nd Paper Tray Feed Roller Drive Signal
CN773-3	+24VM	Intermediate Roller Clutch -1		+24 VDC Power Supply
CN773-4	MRCLH2	Intermediate Roller Clutch -2		2nd Paper Tray Intermediate Roller Clutch Drive Signal

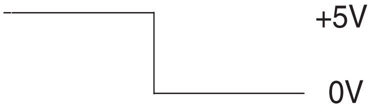
CN774

CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN774-1	+24VM	2nd Tray Lift Motor		+24 VDC Power Supply
CN774-2	LIFTM2	2nd Tray Lift Motor		2nd Paper Tray Lift Motor Drive Signal

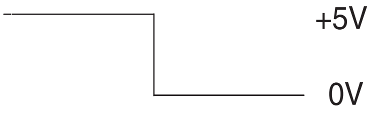
CN775

CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN775-1	PCHK2	No Paper Sensor -1		2nd Paper Tray Paper Detection Signal
CN775-2	GND	No Paper Sensor -2		Ground
CN775-3	LDPHK2	No Paper Sensor -3		Photo Sensor DC Drive Voltage
CN775-4	UPLMT2	Upper Limit Sensor -1		2nd Paper Tray Paper Level Signal
CN775-5	GND	Upper Limit Sensor -2		Ground
CN775-6	LDUPL2	Upper Limit Sensor -3		Photo Sensor DC Drive Voltage

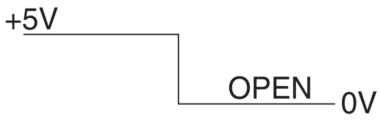
CN776

CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN776-1	FDPCHK2	Registration Sensor -1		2nd Paper Tray Paper Registration Detection Signal
CN776-2	GND	Registration Sensor -2		Ground
CN776-3	LDFPCHK2	Registration Sensor -3		Photo Sensor DC Drive Voltage

CN777

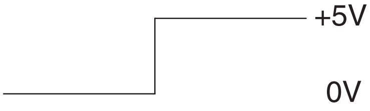
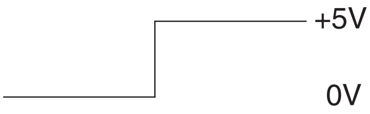
CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN777-1	nCST2	2nd Tray Detection Sensor -1		2nd Paper Tray Detection Signal
CN777-2	GND	2nd Tray Detection Sensor -2	0V	Ground
CN777-3	LDCST2	2nd Tray Detection Sensor -3	+1.2V	Photo Sensor DC Drive Voltage

CN778

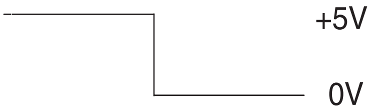
CST2 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN778-1	JAMDOR2	Jam Cover Open Sensor -1		2nd Paper Tray Jam Access Cover Open Detection Signal
CN778-2	GND	Jam Cover Open Sensor -2	0V	Ground
CN778-3	LDJAM2	Jam Cover Open Sensor -3	+1.2V	Photo Sensor DC Drive Voltage

2.10.8. CST3 PC Board

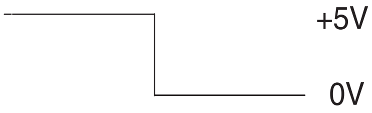
CN800

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN800-1	PCHK3	No Paper Sensor -1		3rd Paper Tray Paper Detection Signal
CN800-2	GND	No Paper Sensor -2		Ground
CN800-3	LDPHK3	No Paper Sensor -3		Photo Sensor DC Drive Voltage
CN800-4	UPLIMIT3	Upper Limit Sensor -1		3rd Paper Tray Paper Level Signal
CN800-5	GND	Upper Limit Sensor -2		Ground
CN800-6	LDUPL3	Upper Limit Sensor -3		Photo Sensor DC Drive Voltage

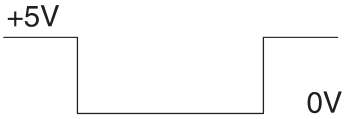
CN801

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN801-1	CST3	3rd Tray Detection Sensor -1		3rd Paper Tray Detection Signal
CN801-2	GND	3rd Tray Detection Sensor -2		Ground
CN801-3	LDCST3	3rd Tray Detection Sensor -3		Photo Sensor DC Drive Voltage

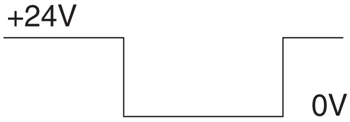
CN802

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN802-1	JAMDOR3	Jam Cover Open Sensor -1		3rd Paper Tray Jam Access Cover Open Detection Signal
CN802-2	GND	Jam Cover Open Sensor -2	0V	Ground
CN802-3	LDJAM3	Jam Cover Open Sensor -3	+1.2V	Photo Sensor DC Drive Voltage

CN803

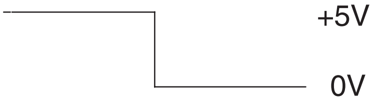
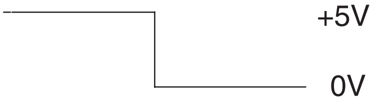
CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN803-1	FDPCHK3	Registration Sensor -1		3rd Paper Tray Paper Registration Detection Signal
CN803-2	GND	Registration Sensor -2	0V	Ground
CN803-3	LDFPCHK3	Registration Sensor -3	+1.5V	Photo Sensor DC Drive Voltage

CN804

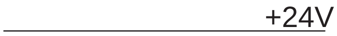
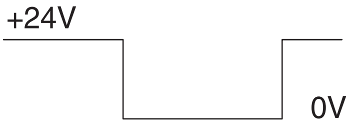
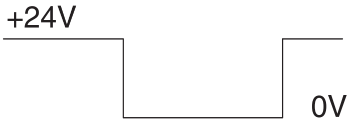
CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN804-1	+24VM	3rd Tray Lift Motor	+24V	+24 VDC Power Supply
CN804-2	nLIFTM3	3rd Tray Lift Motor		3rd Paper Tray Lift Motor Drive Signal

CN805

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN805-1	+24VM	3rd Tray Drive Motor -1	+24V	+24 VDC Power Supply

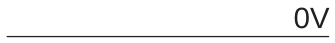
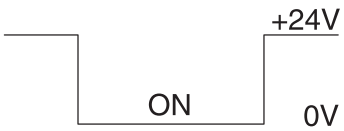
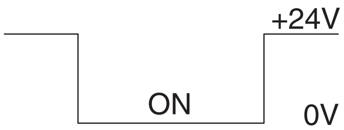
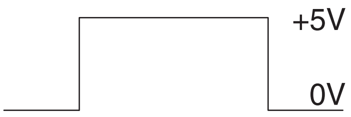
CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN805-2	MGND	3rd Tray Drive Motor -2		Ground
CN805-3	N.C.	3rd Tray Drive Motor -3		No Connection
CN805-4	P/S	3rd Tray Drive Motor -4		Motor Start/Stop
CN805-5	LD	3rd Tray Drive Motor -5		Motor Lock Detection Signal

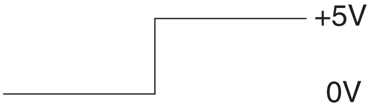
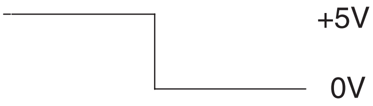
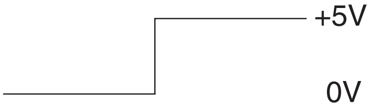
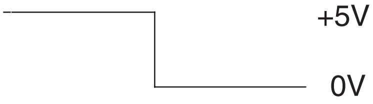
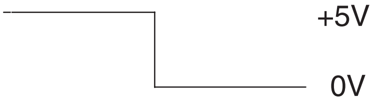
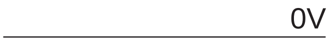
CN806

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN806-1	+24VM	Paper Feed Clutch -1		+24 VDC Power Supply
CN806-2	ADF3	Paper Feed Clutch -2		3rd Paper Tray Feed Roller Drive Signal
CN806-3	+24VM	Intermediate Roller Clutch -1		+24 VDC Power Supply
CN806-4	MRCLH3	Intermediate Roller Clutch -2		3rd Paper Tray Intermediate Roller Clutch Drive Signal

CN808

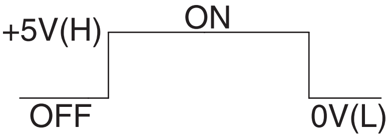
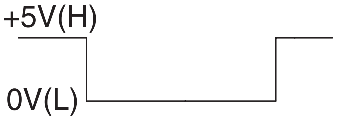
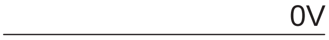
CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN808-1	+24VM	CST2 PCB CN770-3		+24 VDC Power Supply
CN808-2	MGND	CST2 PCB CN770-4		Ground

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN808-3	+5v	CST2 PCB CN770-5		+5 VDC Power Supply
CN808-4	GND	CST2 PCB CN770-6		Ground
CN808-5	N.C.	CST2 PCB CN770-7		No Connection
CN808-6	N.C.	CST2 PCB CN770-8		No Connection
CN808-7	N.C.	CST2 PCB CN770-9		No Connection
CN808-8	N.C.	CST2 PCB CN770-10		No Connection
CN808-9	N.C.	CST2 PCB CN770-11		No Connection
CN808-10	N.C.	CST2 PCB CN770-12		No Connection
CN808-12	N.C.	CST2 PCB CN770-14		No Connection
CN808-13	ADF4	CST2 PCB CN771-1		4th Paper Tray Feed Roller Drive Signal
CN808-14	MRCLH4	CST2 PCB CN771-2		4th Paper Tray Intermediate Roller Clutch Drive Signal
CN808-15	LIFT4	CST2 PCB CN771-3		4th Paper Tray Lift Motor Signal

CST3 PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN808-16	PCHK4	CST2 PCB CN771-4		4th Paper Tray Paper Detection Signal
CN808-17	CST4	CST2 PCB CN771-5		4th Paper Tray Detection Signal
CN808-18	UPLIMIT4	CST2 PCB CN771-6		4th Paper Tray Paper Level Signal
CN808-19	FDPCHK4	CST2 PCB CN771-7		4th Paper Tray Paper Registration Detection Signal
CN808-20	JAMDOR4	CST2 PCB CN771-8		4th Paper Tray Jam Access Cover Open Detection Signal
CN808-21	CSTOP4	CST2 PCB CN771-9		4th Paper Feed Module Detection Signal
CN808-23	+24VM	CST2 PCB CN771-11		+24 VDC Power Supply
CN808-24	MGND	CST2 PCB CN771-12		Ground
CN808-25	N.C.	CST2 PCB CN770-15		No Connection
CN808-26	N.C.	CST2 PCB CN770-16		No Connection

2.10.9. FXB PC Board

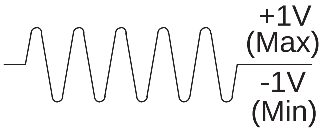
CN391

FXB PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN391-1	+5VP	MJR PC Board CN25-1		+5 VDC Power Supply
CN391-2	GND	MJR PC Board CN25-2		Ground
CN391-3	+24V	MJR PC Board CN25-3		+24 VDC Power Supply
CN391-4	pCMLD	MJR PC Board CN25-4		Line Switching Relay Drive Signal H : CML On L : CML Off
CN391-5	nHKOF	MJR PC Board CN25-5		External Phone Off-Hook Detection Signal H : On Hook L : Off Hook
CN391-6	nCTON	MJR PC Board CN25-6	H: Standby Mode L: Ringing	Ring Detection Signal
CN391-7	AGND	MJR PC Board CN25-7		Ground

CN392

FXB PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN392-1	L2	MJR PC Board CN22-1		Line Signal
CN392-3	L1	MJR PC Board CN22-2		Line Signal

CN393

FXB PCB Pin No.	Signal Name	Destination	Signal Waveform	Function
CN393-1	pSPKOT	Speaker -1		Line Dial Tone Signal
CN393-2	GND	Speaker -2		Ground

2.10.10. MJR PC Board

CN22
Refer to FXB PC Board .

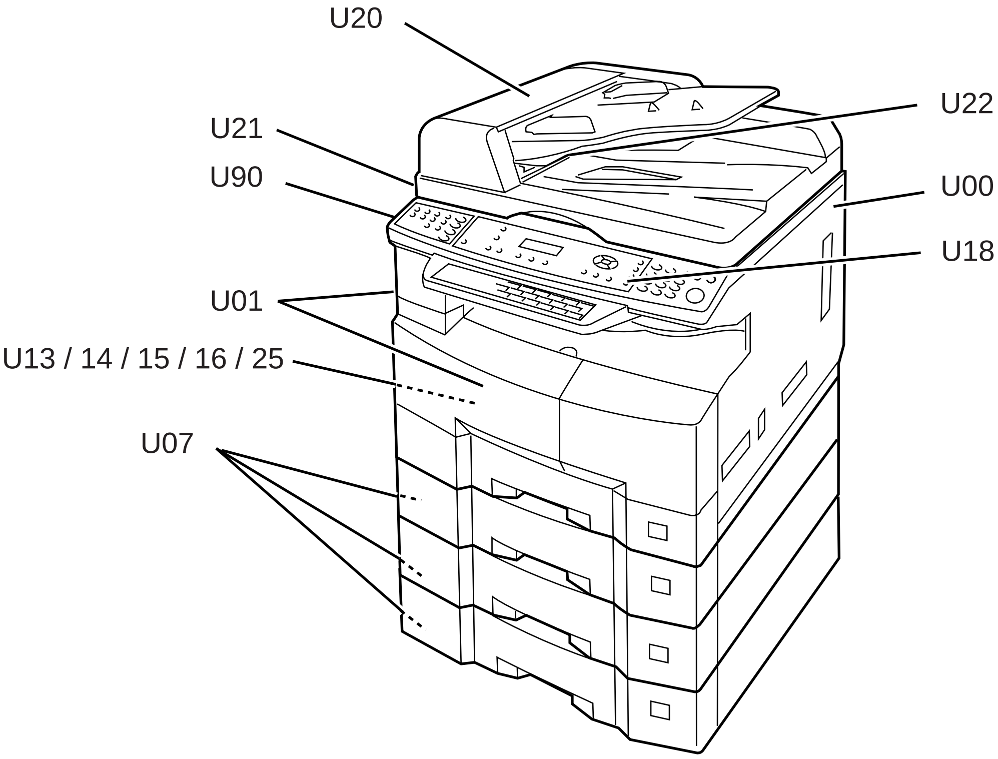
CN25
Refer to FXB PC Board .

3 Troubleshooting

3.1. Error Codes (For Copier)

The self-diagnostic functions detect troubles in the important components of the copier.
When any trouble occurs, the copier stops.

3.1.1. User Error Codes (U Code)

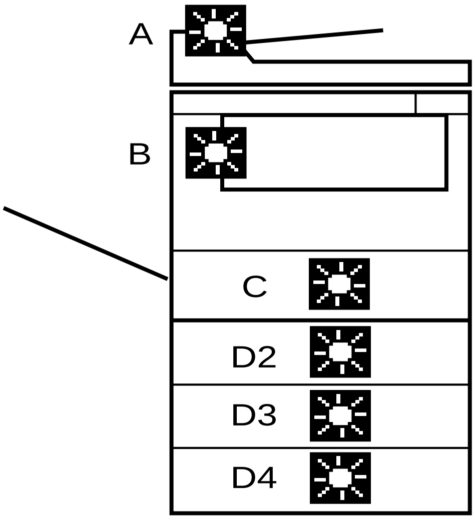


Note:
Uxx, and a message will appear on the Panel Display.

User Error Codes (U Code) Table		
Code	**Item**	**Possible Cause(s)**
U00	Key Counter	1. Card Key not installed. 2. Key Counter Harness disconnected. 3. Department Code not assigned.
U01	Close Front Cover	1. Front Cover / Side Cover open. 2. Front Cover / Side Cover Sensor disconnected. 3. Front Cover / Side Cover Sensor defective 4. PS connector disconnected. 5. PS defective. 6. SPC PCB connector disconnected. 7. SPC PCB defective.
U07	Close Tray Cover	1. Tray Cover open. 2. Tray Unit incorrectly installed. 3. Tray Unit connector disconnected. 4. Tray Unit Sensor disconnected. 5. Tray Unit Sensor defective. 6. PS connector disconnected. 7. PS defective. 8. CST2/CST3 PCB connector disconnected. 9. CST2/CST3 PCB defective.

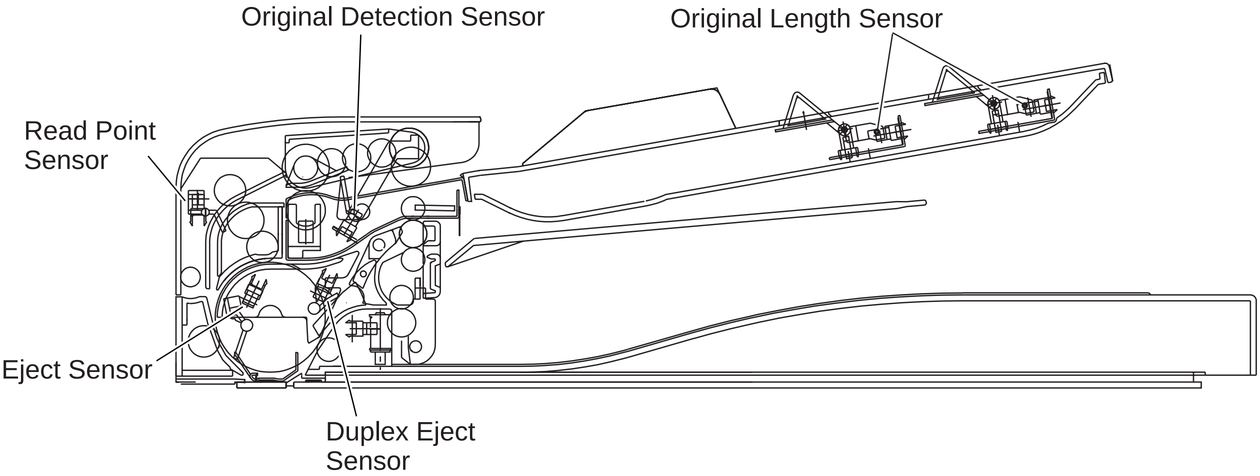
User Error Codes (U Code) Table		
Code	**Item**	**Possible Cause(s)**
U13	Add Toner	1. Toner Bottle incorrectly installed. 2. Low Toner. 3. Toner Sensor disconnected. 4. Toner Sensor defective. 5. SPC PCB connector disconnected. 6. SPC PCB defective.
U14	Replace Toner Waste Container	1. Toner Waste Container full. (See Sect. 3.5.3. of the Service Manual)
U15	No Toner Waste Container	1. Toner Waste Container not installed. 2. Toner Waste Container Sensor disconnected. 3. Toner Waste Container Sensor defective.
U16	No Developer Unit	1. Developer Unit not installed.
U18	Total Copy Limit Over	1. Department Copy Counter full.
U20	Close ADF Cover	1. ADF Cover open. 2. ADF not installed correctly. 3. ADF Cover Sensor disconnected. 4. ADF Cover Sensor defective. 5. PS connector disconnected. 6. PS defective.
U21	Close ADF	1. ADF, and ADF Cover open. 2. ADF Sensor disconnected. 3. ADF Sensor defective.
U22	Close ADF Exit Cover	1. ADF Exit Cover open. 2. ADF not installed correctly. 3. ADF Exit Cover Sensor disconnected. 4. ADF Exit Cover Sensor defective. 5. PS connector disconnected. 6. PS defective.
U25	Shake Toner Bottle	1. Toner blocked in the Toner Bottle.
U90	Replace Battery	1. Internal battery requires replacement.

3.1.2. Jam Error Codes (J Code)

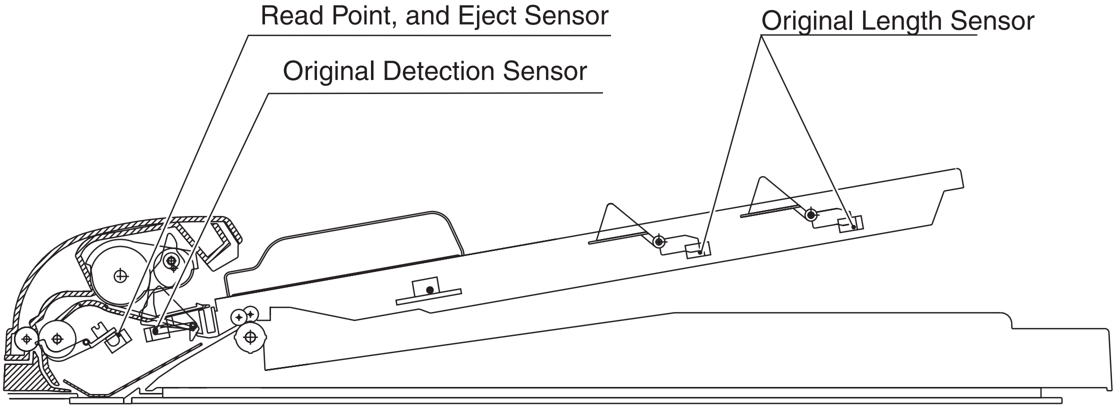


Section	Jam Location
A	ADF / i-ADF / Scanner
B	Paper Transport / Exit Area
C	Paper Entry Area
D2	2nd Paper Tray
D3	3rd Paper Tray
D4	4th Paper Tray

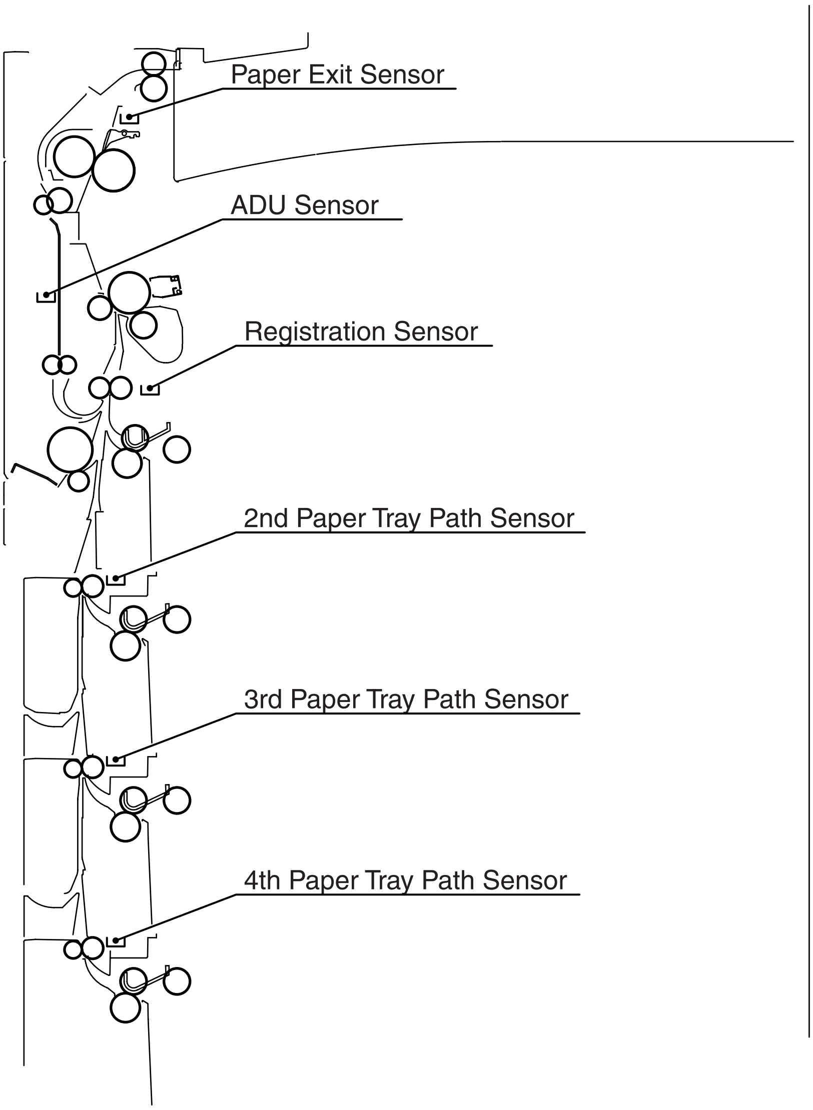
- **Jam Sensor Location of i-ADF**


Original Detection Sensor
Original Length Sensor
Read Point Sensor
Eject Sensor
Duplex Eject Sensor

- **Jam Sensor Location of ADF**


Read Point, and Eject Sensor
Original Detection Sensor
Original Length Sensor

- **Jam Sensor Location of Printer**


Paper Exit Sensor
ADU Sensor
Registration Sensor
2nd Paper Tray Path Sensor
3rd Paper Tray Path Sensor
4th Paper Tray Path Sensor

- **Paper Transport / Exit / Entry / Feed Unit Area**

Jam Error Codes (J Code) Table

Code	Contents	Section
J00	The Registration Sensor does not detect paper within a predetermined time after the paper starts feeding. (Sheet Bypass)	B
J01	The Registration Sensor does not detect paper within a predetermined time after the Paper Feed Roller starts rotating. (1st Paper Tray)	
J02	The 2nd Paper Tray Path Sensor does not detect paper within a predetermined time after the Paper Feed Roller starts rotating. (2nd Paper Tray)	D2
J03	The 3rd Paper Tray Path Sensor does not detect paper within a predetermined time after the Paper Feed Roller starts rotating. (3rd Paper Tray)	D3
J04	The 4th Paper Tray Path Sensor does not detect paper within a predetermined time after the Paper Feed Roller starts rotating. (4th Paper Tray)	D4
J07	The Registration Sensor does not detect paper within a predetermined time after the 2nd Paper Tray Path Sensor is activated. (2nd Paper Tray)	B, D2
J08	The Registration Sensor did not detect paper within a predetermined time after the 3rd Paper Tray Path Sensor is activated. (3rd Paper Tray)	D3
J09	The Registration Sensor did not detect paper within a predetermined time after the 4th Paper Tray Path Sensor is activated. (4th Paper Tray)	D4
J12	The 2nd Paper Tray Path Sensor does not go off within a predetermined time after the Paper Tray Path Sensor is activated.	B, D2
J13	The 3rd Paper Tray Path Sensor does not go off within a predetermined time after the Paper Tray Path Sensor is activated.	D3
J14	The 4th Paper Tray Path Sensor does not go off within a predetermined time after the Paper Tray Path Sensor is activated.	D4
J19	The Registration Sensor does not detect within a predetermined time after the ADU Sensor is activated.	B
J22	The 2nd Paper Tray Path Sensor detect paper at the time of the initials.	B, D2
J23	The 3rd Paper Tray Path Sensor detect paper at the time of the initials.	D2, D3
J24	The 4th Paper Tray Path Sensor detect paper at the time of the initials.	D3, D4
J30	The Registration Sensor does not go off within a predetermined time after the Sensor is activated. (Sheet Bypass)	B
J31	The Registration Sensor does not go off within a predetermined time after the Sensor is activated. (Except Sheet Bypass)	
J32	The Registration Sensor does not go off within a predetermined time after the ADU Sensor is activated. (DP-8020E)	
J33	The Registration Sensor detects paper during non-printing mode.	
J45	The Paper Exit Sensor keeps detecting paper after a predetermined time, during non-printing mode.	
J46	The Paper Exit Sensor does not go off within a predetermined time after the Sensor is activated.	
J48	The Paper Exit Sensor does not detect paper within a predetermined time after the Registration Sensor is activated.	
J70-79	(See the following table below)	
J82	The ADU Sensor does not detect paper within a predetermined time after the Duplex Feed Roller starts rotating.	B
J85	The ADU Sensor does not go off within a predetermined time after the Sensor is activated.	
J87	The ADU Sensor detects paper during non-printing mode.	
J90	Abnormal Paper Jam: During printing the Front Door was opened, etc.	B, C, D

Jam Error Codes (J Code) Table		
Code	**Contents**	**Section**
J91	A Paper Tray was pulled out while feeding paper.	C
J92-94	(See the following table below)	
J95	The paper size of a Tray differs from the Machine setting size.	B
J97	After passing the Registration Sensor (Roller), the Paper does not clear the sensor within a predetermined time period.	
J98	No VRDY Signal after a predetermined time has lapsed.	
J99	No VSYNC Signal within a predetermined time after VRDY Signal is activated.	

- **i-ADF / ADF Area**

Jam Error Codes (J Code) Table		
Code	**Contents**	**Section**
J70	The Read Point Sensor does not detect paper within a predetermined time after the original starts feeding.	A
J71	The Read Point Sensor keeps detecting paper within a predetermined time after scanning starts.	
J72	The Eject Sensor does not detect paper within a predetermined time after the Read Point Sensor is activated.	A (i-ADF only)
J73	1. The Eject Sensor keeps detecting paper within a predetermined time after scanning starts. 2. The Eject Sensor keeps detecting paper within a predetermined time after the Read Point Sensor is deactivated.	
J76	The Duplex Eject Sensor does not detect paper within a predetermined time after scanning starts.	
J78	The Duplex Eject Sensor keeps detecting paper within a predetermined time after 2-Sided Scanning.	
J79	The Read Point Sensor keeps detecting paper in the ADF.	A
J92	The Read Point Sensor does not detect paper in the ADF.	
J93	The paper remained in the ADF.	
J94	The ADF does not go off after the predetermined time. Unexpected Jam timing (i.e. Original is too short, Ledger / A3 size original is fed without being recognized that the length is abnormal for a Fax Transmission, etc.)	

3.1.3. Mechanical Error Codes (E Code)

E1: Optical Unit Error

Code	Function	Possible Cause(s)
E1- 01	Abnormal Platen Glass Scanning	1. Home Position Sensor connector disconnected. 2. Home Position Sensor defective. 3. Scanner Motor connector disconnected. 4. Scanner Motor defective. 5. Scanning Mechanism defective. 6. SPC PCB connector disconnected. 7. SPC PCB defective. 8. PS defective.
E1- 20	Laser Unit Horizontal Synchronization	1. LSU connector disconnected. 2. LSU defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective.
E1- 22	Polygon Motor Synchronization	1. Polygon Motor connector disconnected. 2. SPC PCB connector disconnected. 3. LSU connector disconnected. 4. Polygon Motor defective. 5. PS defective. 6. SPC PCB defective.
E1- 31	Scanning Lamp (Does not turn On)	1. INV PCB connector disconnected. 2. INV PCB defective. 3. Scanning Lamp defective. 4. SPC PCB connector disconnected. 5. PS defective.

E2: Lift DC Motor Error

Code	Function	Possible Cause(s)
E2- 01	Lift Motor Rotation (1st Paper Tray)	1. Level Sensor connector disconnected. 2. Level Sensor defective. 3. Lift Mechanism defective. 4. Lift Motor connector disconnected. 5. Lift Motor defective. 6. SPC PCB connector disconnected. 7. SPC PCB defective. 8. PS defective.
E2- 02	Lift Motor Rotation (2nd Paper Tray)	1. Level Sensor connector disconnected. 2. Level Sensor defective. 3. Lift Mechanism defective. 4. Lift Motor connector disconnected. 5. Lift Motor defective. 6. SPC PCB connector disconnected. 7. SPC PCB defective. 8. CST2 PCB connector disconnected. 9. CST2 PCB defective. 10. CST3 PCB connector disconnected. 11. CST3 PCB defective. 12. PS defective.
E2- 03	Lift Motor Rotation (3rd Paper Tray)	
E2- 04	Lift Motor Rotation (4th Paper Tray)	

E2: Lift DC Motor Error		
Code	**Function**	**Possible Cause(s)**
E2- 10	System Console Drive Motor Rotation	1. Drive Mechanism defective. 2. Drive Motor connector disconnected. 3. Drive Motor defective. 4. CST2 PCB connector disconnected. 5. CST3 PCB connector disconnected. 6. CST3 PCB defective. 7. PS connector disconnected. 8. PS defective. 9. SPC PCB connector disconnected. 10. SPC PCB defective.

E3: Development System Error		
Code	**Function**	**Possible Cause(s)**
E3- 01	Toner Bottle Motor Rotation	1. Toner Bottle Motor connector disconnected. 2. Toner Bottle Motor defective. 3. Toner Bottle Motor Drive Mechanism defective. 4. Toner Bottle installed incorrectly. 5. SPC PCB connector disconnected. 6. SPC PCB defective. 7. Toner Bottle Home Position Sensor connector disconnected. 8. Toner Bottle Home Position Sensor defective.
E3- 02	Toner Screw Motor Over Current	1. Toner Screw Motor defective. 2. Toner Screw Motor Drive Mechanism defective. 3. SPC PCB defective.
E3- 03	Toner Density Sensor Gain	1. Sensor connector disconnected. 2. Sensor defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective.
E3- 10	High Voltage Power Supply leak (1) - Grid Charge Voltage	1. PS connector disconnected. 2. PS defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective. 5. Corona Wire is abnormal. (Check for: contamination with foreign particles, broken, not installed in the proper position, or loose tension)
E3- 20	Main Motor Rotation	1. Drive Mechanism defective. 2. Main Motor connector disconnected. 3. Main Motor defective. 4. SPC PCB connector disconnected. 5. SPC PCB defective. 6. PS defective.

E4: Fuser Unit Error		
Code	**Function**	**Possible Cause(s)**
E4- 01	Fuser Warm-up Temperature	1. Fuser Thermistor dirty. 2. Thermistor position incorrect. 3. Thermistor defective. 4. Thermistor connector disconnected. 5. Fuser Lamp connector disconnected. 6. Fuser Lamp defective. 7. Fuser Thermostat defective. 8. Thermal Fuse defective. 9. SPC PCB connector disconnected. 10. SPC PCB defective. 11. Fuser temperature low. (Adjust F6-31) 12. Incorrect SC PCB is installed. 13. Incorrect SPC PCB is installed.
E4- 02	Fuser Paper Jam	1. Paper Jam in Fuser Unit. 2. Paper Exit Sensor disconnected. 3. Paper Exit Sensor defective. 4. SPC PCB connector disconnected. 5. SPC PCB defective.
E4- 10	Fuser Fan Motor Rotation	1. Fuser Fan connector disconnected. 2. Fuser Fan defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective. 5. PS defective.

E5: System Error		
Code	**Function**	**Possible Cause(s)**
E5- 11	Printer Engine Communication Abnormal	1. SPC PCB connector disconnected. 2. SPC PCB defective. 3. SC PCB connector disconnected. 4. SC PCB defective.
E5- 17	Scanner Synchronization	
E5- 19	Scanner Line Synchronization	
E5- 40	Sort Memory Abnormal	1. Sort Memory defective. 2. SC PCB connector disconnected. 3. SC PCB defective.
E5- 42	Total Counter Connection	1. Total Counter connector disconnected. 2. Total Counter defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective.
E5- 60	Power Supply Cooling Fan Motor Rotation	1. Cooling Fan connector disconnected. 2. Cooling Fan defective. 3. SPC PCB connector disconnected. 4. SPC PCB defective. 5. PS defective.

E7: Optional Unit Error		
Code	**Function**	**Check Points**
E7- 90	Hardware Key Abnormal	1. Incorrect Hardware Key installed. 2. Hardware Key defective.

E13: Out of Toner		
Code	**Function**	**Possible Cause(s)**
E13	No Toner Detection	1. Out of Toner. 2. Toner Bottle not installed. 3. Toner Bottle not installed correctly. 4. Toner Sensor disconnected. 5. Toner Sensor defective. 6. SPC PCB connector disconnected. 7. SPC PCB defective.

3.1.4. Technician Warning

The following message will be displayed in the event.

LCD Message	Possible Cause(s)
HDD OPTION REQUIRES ADDITIONAL SORT MEM	1. Additional Sort memory is not installed. • DA-SM16 (16 MB) • DA-SM64 (64 MB) • DA-SM28 (128 MB) 2. Make sure the SDRM PC Board was installed properly.
MACHINE ID ERROR	1. Incorrect SC PCB is installed. • SC PCB for DP-8020E • SC PCB for DP-8020P • SC PCB for DP-8016P 2. SPC PCB defective.

3.2. Information Codes Table (For Facsimile)

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
012	RCV	C, D	The length of the received document is over 2 m.	
030	XMT	B	Read Point Sensor does not activate within 10 seconds after the document starts feeding.	Document not set properly. Defective Read Point Sensor.
031	XMT COPY	C	Transmitting document was longer than 2,000 mm (78.7 in). (Super Fine: 1,000 mm (39.4 in), 600 dpi: 430 mm (16.2 in))	Document may be jammed. Defective Read Point Sensor.
061	-	A	ADF Door is open.	Cover not firmly closed. Connectors not firmly connected.
200	RCV	C	Decoding process did not complete at the end of phase C.	Defective FXB PCB.
212	XMT RCV	A-E	Interface error occurred between the CPU, and modem.	Modem defective. (FXB PCB) Software problem occurred. (SC PCB)
301	XMT RCV		System fault.	Software problem occurred. (SC PCB)
331	XMT	C	8-minutes timer error. (Germany only)	
400	XMT	B	T1 timer (35±5 sec) elapsed without detecting 300 bps signal.	Wrong number dialed, and the START button was pushed. Telephone line disconnected while dialing. FXB PCB (Modem), or MJR PCB defective. Receiver defective. (It may only be transmitting CED)
401	XMT	B	DCN was returned from receiver while transmitter is waiting for CFR, or FTT.	Your machine's ID Number is not programmed. Possible incompatibility, or incorrect Password (Password Reception, Selective Receive). Mailbox full.
402	XMT	B	DCN was returned from receiver while transmitter is waiting for NSF/DIS.	Receiver working in non-CCITT mode only. (Possible incompatibility)
403	RCV (Polling)	B	Transmitter had no polling function.	"POLLED=ON" (polling XMT ready) not set at the transmitter. Document to be transmitted not placed at the transmitter.
404	XMT	B	Transmitter sent NSS (or DCS) followed by TCF three times, but the receiver did not respond. (CFR, or FTT is usually returned)	Receiver defective. (Modem, MJR PCB, etc.) FXB PCB, or MJR PCB defective. Receiver disconnects line during first NSS (or DCS) transmitted.

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
405	XMT	B	Transmitter received FTT after it transmitted TCF at 2400 bps. Received RTN after communicating at 2400 bps.	Line quality poor. (TCF is damaged due to line noise) Receiver defective. (Modem, MJR PCB, etc.) FXB PCB, or MJR PCB defective.
406	RCV (Password Comm.)	B	XMT-Password mismatched. RCV-Password mismatched. Selective RCV incomplete.	XMT, RCV password does not match. Last 4 digits of TSI does not match with the last 4 digits of Auto Dial telephone number.
407	XMT	D	Transmitter received no response after it transmitted post message, such as EOP, MPS, EOM, etc...or received DCN.	Receiver defective. (No paper, paper jamming, etc.) Receiver ceased receiving because of excessive errors. (Line quality poor) FXB PCB (Modem), or MJR PCB defective.
408	XMT	D	Transmitter received RTN after it transmitted EOP, MPS, or EOM.	Receiver receives data with errors. (Line quality poor) Receiver defective. (Modem, MJR PCB, etc.) FXB PCB, or MJR PCB defective.
409	XMT	D	Transmitter receives PIN after it transmitted a post message, such as EOP, MPS, EOM, etc.	Receiver receives data with error due to poor line quality, and receiving operator requests voice contact. Receiver defective. (Modem, MJR PCB, etc.) FXB PCB, or MJR PCB defective.
410	RCV	D	Received DCN while waiting for post command. (EOP, MPS, EOM, etc.)	Interface, or line faulty. Transmitter defective.
411	RCV (Polling)	B	Received DCN after transmitting NSC.	Transmitter not ready for polling communication. Password does not match between transmitter, and receiver.
412	G3 RX	B, D	No response within 12 seconds in NSS/DCS/MPS wait state. (After transmitting FTT)	Transmitter defective. FXB PCB defective.
414	RCV (Polling)	B	No response received after transmitting 3rd NSC.	Password does not match between transmitter, and receiver. Transmitter defective. (No original, document jam, etc.)
415	XMT (Polling)	B	Remote side attempted to receive message from your machine in polling communication.	Inform the remote side that your machine does not have the polling transmission feature.
416	RCV	D	Receiver did not detect post command, such as EOP, MPS, EOM, etc.	Transmitter defective. Line quality poor. (RTC signal distorted due to line noise) FXB PCB, or MJR PCB defective.
417	RCV	C	Receiver returned RTN in response to post message.	Line quality poor. (There are excessive errors in received data) FXB PCB, or MJR PCB defective.

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
418	RCV	C	Receiver transmitted PIN in response to PRI-Q from transmitter. (Transmitting operator requests voice contact)	Line quality poor. (There are excessive errors in received data) FXB PCB, or MJR PCB defective.
420	RCV	B	T1 timer (35 sec.) elapsed without detecting 300 bps signal.	Wrong number dialed. (Non-facsimile communication) Transmitter defective. FXB PCB, or MJR PCB defective.
421	RCV	B	Busy Tone was detected after sending NSF Signal.	Remote station disconnected the line. Wrong number was dialed.
422	XMT	B	Content of NSF (or DIS), or NSC (or DTC) was invalid.	Incompatible content
427	G3 RCV	B	DCN received to NSF/CSI/DIS transmitted.	Interface is incompatible.
433	XMT RCV	B, D	T.30 Protocol abnormal.	Defective remote station.
434	XMT, or RCV	B	CD (response from Modem) did not turn OFF within 180 sec. after receiver detected FLAG signal.	Remote unit defective. FXB PCB, or MJR PCB defective.
436	G3 RX	C	DCN received after transmitting FTT.	Transmitter defective, or incompatible. Line quality poor.
456	RCV	B	Received relay transfer request, or confidential document to distribute to an end receiving station, or all confidential mailboxes are used.	
457	RELAY XMT CONF. XMT/ POLL	B	Remote unit does not have Relayed XMT, or Confidential Comm. capability.	
459	RCV	C	Failed training in Phase C.	Line quality poor. (Training signal distorted due to line noise) FXB PCB, or MJR PCB defective.
490	RCV	C	Sum of error lines exceeded the limit (Function Parameter No. 70) of 64 lines.	Line quality poor. FXB PCB, or MJR PCB defective.
494	RCV	C	Interval between two EOLs was more than 10 sec. when receiver received message data.	Transmitter defective. Line quality poor. (EOL damaged due to line noise) FXB PCB, or MJR PCB defective.
495	XMT RCV	C	During reception, CD turned OFF, or continued ON for long time. During communication, lost loop - current.	Line disconnected. Transmitter defective. FXB PCB, or MJR PCB defective.
496	XMT	C	CS of modem is not able to turn ON.	FXB PCB defective.
501	XMT/ RCV(V.34)	B	Incompatible Modem on the Remote unit.	
502	XMT/ RCV(V.34)	B, C, D	During reception, CD turned OFF, or continued ON for long time. During communication, lost loop - current.	Line disconnected. Transmitter defective. FXB PCB, or MJR PCB defective.

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
503	XMT/ RCV(V.34)	B, C, D	CS of modem is not able to turn ON during training.	FXB PCB defective. Line disconnected.
504	RCV/V.34 (Polling)	B	Polling is rejected from the remote station.	No polling original set.
505	XMT/V.34 (Polling)	B	Polling XMT is rejected.	No polling original set.
540	XMT ECM	B	No response after transmitting 3rd CTC, or DCN received.	Incompatible interface.
541	XMT ECM	D	No response after transmitting 3rd EOR, or received DCN.	Faulty line. MJR PCB abnormal.
542	XMT ECM	D	No response to the 3rd RR transmitted, or received DCN.	Remote unit abnormal.
543	XMT ECM	D	T5 timer (60 sec.) elapsed without MCF.	Remote unit abnormal.
544	XMT ECM	D	Stopped Transmission after EOR Transmission.	Faulty line. MJR PCB abnormal.
550	RCV ECM	C	Timer between frames in phase C has elapsed.	Defective remote station.
554	RCV ECM	D	Transmitted ERR after receiving EOR.	Faulty line.
555	RCV ECM	D	Transmitted PIN after receiving EOR.	Faulty line, and Operator Call requested by RX side.
570	RCV	B	Password, or machine code did not match during remote diagnostic communication.	
571	XMT	B	Remote unit did not have the remote diagnostic function.	
580	XMT	B	Sub-address transmission to a unit that has their DIS bit 49 (NSF bit 155) OFF.	Sub-address transmission to a unit that has no Sub-address function.
581	XMT	B	Sub-address Password transmission to a unit that has their DIS bit 50 (NSF bit 156) OFF.	Sub-address transmission to a unit that has no Sub-address function.
582	XMT	B	Sub-address SEP (for Polling) transmission to a unit that has their DIS bit 47 (NSF bit 130) OFF.	Sub-address transmission to a unit that has no Sub-address function.
601	XMT		ADF Door was opened during ADF transmission.	
623	XMT	A	No original was in the ADF. (Built-in dialer engaged)	Operator removed the original from the ADF after dialing was completed. Original was not set properly in the ADF.
630	XMT, or RCV (Polling)	B	Redial count over.	No dial tone detected. Sensor did not detect dial tone. (Country dependent) Busy tone is detected. (Country dependent) T1 timer (35±5 sec) elapsed without a signal from the receiver.
631	XMT	A	"STOP" key was pressed during Auto Dialing.	

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
634	XMT	PSTN	Redial count over with no response, or busy tone was not detected. **Note:** U.S.A., and Canadian models will redial only once if a busy tone is not detected.	
638	XMT	PSTN LAN	Power turned Off with applicable data in memory, or during communication.	Power switched Off. Power failure occurred.
700	XMT RCV	PSTN LAN	Communication terminated by Operator pressing the "STOP" key.	
712	XMT	LAN	Unknown email address replied from the Mail Server.	Mail Server received an incorrect email address. (Dependent on Server's Mail application)
714	XMT RCV	LAN	LAN Interface error. Cannot logon to the LAN.	The 10Base-T/100Base-TX cable not connected. An unexpected LAN problem occurred.
715	XMT	LAN	TCP/IP connection timed out.	Incorrect IP Address set. Verify the IP Address, Default Router IP Address, SMTP Server IP Address.
716	XMT	LAN	Cannot logon to the LAN.	Incorrect SMTP Server IP Address set. No email application activated on the Mail Server.
717	XMT	LAN	Incomplete SMTP Protocol transmission.	Mail Server’s hard disk may be full. Mail Server defective.
718	XMT	LAN	Page Memory Overflow occurred while receiving printing data. The paper size selected within your application to print is larger than the paper size loaded in the paper tray(s).	Check the document size, and resolution. Ask originator to resend in a supported size, and resolution.
719	RCV	LAN	Received data via LAN is in a format that is not supported.	Ask the originator to resend with a supported file attachment: * In a TIFF-F format. * Image data conforming to A4/Letter size.
720	POP	LAN	Unable to connect to the POP Server.	Incorrect POP Server address set. POP Server is down.
721	POP	LAN	Unable to login to the POP Server.	Incorrect User Name, or Password set.
722	RCV	LAN	Failed to obtain the Network Parameters (such as: IP Address, Subnet Mask, Default Gateway IP Address, etc.) from the DHCP server.	DHCP not available. (Contact the Network Administrator.)
725	XMT POP	LAN	DNS Server connection timed out.	Incorrect DNS Server address set. DNS Server is down.
726	XMT POP	LAN	Received an error response from the DNS Server.	Incorrect POP Server address set. Incorrect SMTP Server address set.

Fax Information Codes				
Code	**Mode**	**Phase**	**Description of Problem**	**Possible Cause(s)**
727	XMT	LAN	Received an Error, or No Response from the Remote Internet Fax. (SMTP Direct XMT)	Remote Internet Fax Errors: Busy, or Job Number Overflow for Relay XMT. (Retry is possible)
728	XMT	LAN		Remote Internet Fax Errors: Memory Overflow, or No Power. (Retry is not possible)
729	XMT	LAN	Failed to authenticate (SMTP AUTHENTICATION) when connecting with the SMTP server.	SMTP AUTHENTICATION, User Name, and/or Password are incorrect. (Contact the Network Administrator.)
730	RCV	LAN	Unable to program the Internet parameters, or the autodialer via Email from a PC.	Verify that the Fax Parameter #158 is set to Valid.
731	RCV	LAN	Dialer full while Relayed Transmission Request was received.	Dial buffer for manual number dialing (70 stations) is being used.
741	XMT, Polling	PSTN	Unable to dial	Deleted the registered station name before dialing with Timer Controlled Communications, etc.
800	Relay Comm.	PSTN	The machine was requested to relay a document but has no Relay Hub capability.	
814	Conf. XMT Conf. Polling Relay Comm.	PSTN	The remote station does not have Relay XMT nor Confidential Communication capability.	
815	Conf. RCV	PSTN	Mailbox full.	
816	Conf. Polled	PSTN	The received Polling Password did not match.	
825	Conf. RCV Conf. Polled	PSTN	Parameter settings of the remote station are not properly set.	
870	MEM XMT Multi-Copy	PSTN LAN	Memory overflow occurred while storing documents into memory.	
879	Memory RCV	PSTN	Memory overflow occurred during substitute memory reception.	Memory overflow on the Fax side.
		LAN	Memory overflow. Mail Server sent a reset command while downloading the data to the machine.	Memory overflow on the Fax side. Mail server aborted the download (Busy with other higher priority jobs).
880	-	-	File Access Error.	
884	-	-	File Access Error.	
961	RCV	LAN	Memory file access error.	SC PCB defective.
962	XMT	PSTN	Memory file access error.	SC PCB defective.
		LAN	Memory file access error.	SC PCB defective.

memo

4 Service Modes

4.1. Service Modes (For Copier)

These Service Modes are provided to assist the technician in checking for abnormalities in the copier, and a means of making adjustments to the Input/Output of major components.

Caution:

The factory default parameters are preset (destination dependent) for optimum performance, and in compliance with the local telecommunication regulations/standards, and do not need to be changed. Changing some of these parameters may cause the unit to be no longer compliant, or become inoperable.

4.1.1. Service Mode Procedure

1. To select the Service Mode
   The service mode is selected when “**FUNCTION**”, “**ORIGINAL SIZE**”, and “**3**” keys are sequentially pressed, then F1 will appear in the display.

2. To exit the Service Mode
   The service mode is reset when the “**FUNCTION**”, and “**CLEAR**” keys are pressed simultaneously.

4.1.2. Copier Service Mode Functions

Service Modes (For Copier)				
Service Mode	**Item**			**Function**
F1	Self Test	00	CCD Test	This test is used for checking the CCD.
		01	LCD/LED Test	This test is used for checking the LCD, and LEDs.
		02	Page Memory Test	This test is used for checking the Page Memory.
		03	Print Test Pattern 1	Prints the pattern for setting the Paper position alignment.
		04	Print Test Pattern 2	Prints the Slant pattern for setting the Paper position alignment.
		05	Print Test Pattern 3	Prints the Grid pattern for setting the Paper position alignment.
		06	Print Test Pattern 4	Prints the pattern for setting the Duplex Paper position alignment.
F2	Single Copy Test			One sheet is copied when the Start key is pressed.
F3	Continuous Copy Test			Multi copies are made when the Start key is pressed.
F4	Input / Output Status Test			The functioning of Input / Output items (selected item numbers) is checked.
F5	Function Parameters			Various function settings (selected by code numbers) can be changed.
F6	Adjust Parameters			Various function settings (selected by code numbers) can be adjusted.
F7	Electronic Counter			Electronic Counters for Maintenance
F8	Service Adjustment			Perform pseudo-operation of an item (selected by code numbers)

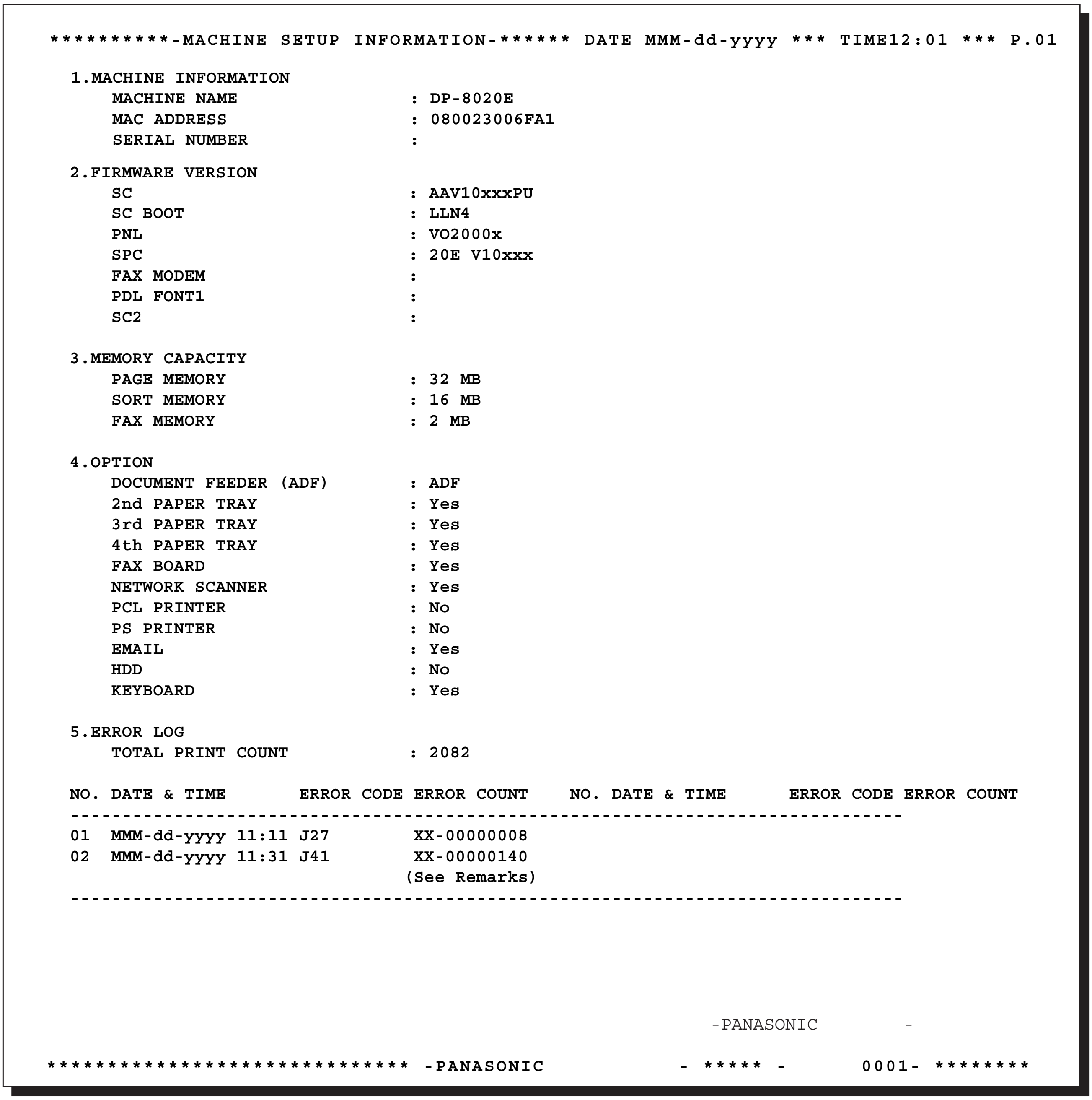
Service Modes (For Copier)		
Service Mode	**Item**	**Function**
F9	Unit Maintenance	Fax Service Mode Service Alert Tel # Firmware Version Print Device Info.

F5 / F6 Information List (Sample)

```
**********-F5/F6 INFORMATION LIST-****** DATE MMM-dd-yyyy *** TIME12:01 *** P.01


F5-00  . . . . .                              F5-50 Auto contrast adj.         Yes
F5-01  Frequency desired           60Hz       F5-51 Dept. Counter (COPY)       Yes
F5-02  . . . . .                              F5-52 Dept. Counter (FAX)        No
F5-03  LSU startup speed           Full       F5-53 2-sided auto shift         No
F5-04  LSU off timer               15 Sec.    F5-54 Margin reduction           No
F5-05  . . . . .                              F5-55 Margin value default       10mm
F5-06  . . . . .                              F5-56 Edge value default         5mm
F5-07  . . . . .                              F5-57 Book value default         20mm
F5-08  . . . . .                              F5-58 U14 Clear                  Any Keys
F5-09  Fuser lamp control          Auto       F5-59 Oper.add toner alarm       Stop

F5-10  EXIT TRAY LIMITATION        None       F5-60 Auto Tray selection        Yes
F5-11  REPLACE DRUM UNIT           Off        F5-61 TDC Adj.(Dev Cond.)        Yes
F5-12  Printer fan extension       5 min      F5-62 TDC Adj.(Dev Life)         Yes
F5-13  PAPER OUT INDICATOR         On         F5-63 U13 clear                  Any keys
F5-14  Paper size (tray1)          LETTER     F5-64 Dept. Counter (SCAN)       Yes
F5-15  Paper size (tray2)          LEDGER     F5-65 Dept. Counter (PRINT)      Yes
F5-16  Paper size (tray3)          LEDGER     F5-66 . . . . .
F5-17  Paper size (tray4)          LEDGER     F5-67 . . . . .
F5-18  . . . . .                              F5-68 . . . . .
F5-19  T Corona Current Adj        No         F5-69 Reduce N in 1 space        No

F5-20  ADF                         Auto       F5-70 PM cycle                   120k
```

```
**********-F5/F6 INFORMATION LIST-****** DATE MMM-dd-yyyy *** TIME12:01 *** P.02

F6-00  Adj 100% Read (S/S)         0          F6-50 T/P Mode Image Density     0
F6-01  Adj 100% Read (L/T)         0          F6-51 Photo Image Density        0
F6-02  100% Selection              0          F6-52 . . . . .
F6-03  Orig. Registration          0          F6-53 CCD Read Position          0
F6-04  Printer Registration        0          F6-54 Text Mode Contrast         0
F6-05  Main Motor Speed            0          F6-55 T/P Mode Contrast          0
F6-06  Polygon Motor Speed         0          F6-56 Photo Mode Contrast        0
F6-07  Registration Void           6          F6-57 . . . . .
F6-08  Trail Edge Read Tim.        0          F6-58 Corona Charger Curr.       0
F6-09  Trail Edge Prt Tim.        -6          F6-59 Trail Edge(Trays)          0

F6-10  Side Adjust (Bypass)        0          F6-60 Trail Edge(Bypass)         0
F6-11  Side Adjust (Tray 1)        0          F6-61 Trail Edge(2-Side)         0
F6-12  Side Adjust (Tray 2)        0          F6-62 TDC Gain Voltage Adj       0
F6-13  Side Adjust (Tray 3)        0          F6-63 Lead Edge Read Tim.        0
F6-14  Side Adjust (Tray 4)        0          F6-64 Side Edge Read Adj.        0
F6-15  . . . . .                              F6-65 Trans Side1(S-Wide)        0
F6-16  Side Adjust (ADU)           0          F6-66 Trans Side2(S-Wide)        0
F6-17  Std Grid Voltage            0          F6-67 ADF Image Density          0
F6-18  Standard Laser Power        0          F6-68 . . . . .
F6-19  Bias Std Voltage            0          F6-69 Stamp Position Adj.        0

F6-20  . . . . .                              F6-70 . . . . .
F6-21  TDC Gain Voltage            0          F6-71 ADF Read Scan Pos.         0
F6-22  . . . . .                              F6-72 Original Lead ADF:S        0
```

Machine Setup Information List (Sample)



```
**********-MACHINE SETUP INFORMATION-****** DATE MMM-dd-yyyy *** TIME12:01 *** P.01

  1.MACHINE INFORMATION
      MACHINE NAME                : DP-8020E
      MAC ADDRESS                 : 080023006FA1
      SERIAL NUMBER               :

  2.FIRMWARE VERSION
      SC                          : AAV10xxxPU
      SC BOOT                     : LLN4
      PNL                         : VO2000x
      SPC                         : 20E V10xxx
      FAX MODEM                   :
      PDL FONT1                   :
      SC2                         :

  3.MEMORY CAPACITY
      PAGE MEMORY                 : 32 MB
      SORT MEMORY                 : 16 MB
      FAX MEMORY                  : 2 MB

  4.OPTION
      DOCUMENT FEEDER (ADF)       : ADF
      2nd PAPER TRAY              : Yes
      3rd PAPER TRAY              : Yes
      4th PAPER TRAY              : Yes
      FAX BOARD                   : Yes
      NETWORK SCANNER             : Yes
      PCL PRINTER                 : No
      PS PRINTER                  : No
      EMAIL                       : Yes
      HDD                         : No
      KEYBOARD                    : Yes

  5.ERROR LOG
      TOTAL PRINT COUNT           : 2082

  NO. DATE & TIME       ERROR CODE ERROR COUNT    NO. DATE & TIME      ERROR CODE ERROR COUNT
  --------------------------------------------------------------------------------
  01  MMM-dd-yyyy 11:11 J27        XX-00000008
  02  MMM-dd-yyyy 11:31 J41        XX-00000140
                                  (See Remarks)
  --------------------------------------------------------------------------------




                                                                    -PANASONIC         -

******************************* -PANASONIC           - ***** -       0001- ********
```

```
Remarks:
   XX-00000140
    |     |
    |     |
    |   Page Count
    |

   00 : Printer Error
   02 : Scanner Error
```

F7 Total Counter List (Sample)

```
**********-F7 TOTAL COUNTER LIST-****** DATE MMM-dd-yyyy *** TIME12:01 *** P.01

F7-01  Key Operator ID Code        :  000

F7-02  Total Count                 :  295
F7-03  PM Count                    :  295
F7-04  Scanner PM Count            :   61
F7-05  . . . . .                   :
F7-06  OPC Drum Count              :  295
F7-07  Process Unit Count          :  295
F7-08  ADF/i-ADF PM Count          :   50
F7-09  . . . . .                   :
F7-10  Developer Count             :  295

F7-11  Sheet Bypass Count          :  147
F7-12  1st Paper Tray Count        :   90
F7-13  2nd Paper Tray Count        :    0
F7-14  3rd Paper Tray Count        :    0
F7-15  4th Paper Tray Count        :    0
F7-16  2-Sided Count               :   28
F7-29  A4/LETTER Count             :  284
F7-30  A4-R/LETTER-R Count         :   73
F7-31  A3/LEDGER Count             :   19
F7-32  B4/LEGAL Count              :    0

F7-17  ADF/i-ADF Count             :   26
F7-18  ADF/i-ADF Read Count        :   26
F7-19  Scanner Count               :   61
F7-20  Scanner Read Count          :   18

F7-21  COPY PRINT COUNT            :   42
F7-22  COPY SCAN COUNT             :   29

F7-23  PC PRINT COUNT              :    0
F7-24  PC SCAN COUNT               :    0

F7-25  FAX TRANSMIT COUNT          :    0
F7-26  FAX RECEIVE COUNT           :    0
F7-27  FAX PRINT COUNT             :    0
```

4.1.3. F4 Mode: Input/Output Status Test

Set the machine to service mode, and press "**4**" key on the Keypad.

↓

Press the "**START**" key.

↓

Enter the number to activate the test then press "**START**" key.

↓

Press "**STOP**" key to cancel the test.

↓

When the “**CLEAR**” key is pressed, the selected code input will not be accepted.

↓

Press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.

1. Check Input

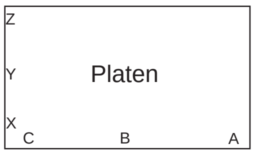
F4 Mode (Check Input)											
No.	**Function**	**Condition**	**Message Display**								**Remarks**
			7	**6**	**5**	**4**	**3**	**2**	**1**	**0**	
000	Toner Screw Motor Over Current	Over Current is detected.		1							
	Power Supply Fan Signal	Normal.			0						
003	Paper Tray Unit Option Detection Sensor (2nd Paper Tray)	Unit is installed.	0								
	Paper Tray Detection Sensor (2nd Paper Tray)	Paper Tray is opened.		0							
	Paper Tray Detection Sensor (1st Paper Tray)	Paper Tray is opened.			0						
	NP Sensor (Sheet Bypass)	Paper is not detected.					1				
	Paper Length Sensor (Sheet Bypass)	Sensor is activated.						1			
	Size Sensor (PC1) (Sheet Bypass)	Sensor is activated.							1		
	Size Sensor (PC2) (Sheet Bypass)	Sensor is activated.								1	

F4 Mode (Check Input)

No.	Function	Condition	Message Display								Remarks
			7	6	5	4	3	2	1	0	
004	Size Sensor (PC3) (Sheet Bypass)	Paper is not detected.		0							
	ADU Detection Sensor	Unit is connected.			0						
	JAM Access Cover Open Detection Sensor (2nd Paper Tray)	Cover is open.				0					
	Upper Limit Sensor (2nd Paper Tray)	Upper Limit is detected.					1				
	Upper Limit Sensor (1st Paper Tray)	Upper Limit is detected.						1			
	NP Sensor (2nd Paper Tray)	Paper is not detected.							0		
	NP Sensor (1st Paper Tray)	Paper is not detected.								0	
005	Total Counter Detection Sensor	Counter is not detected.		1							
	Polygon Motor Lock Signal	Normal.			0						
	Main Motor Lock Signal	Normal.				0					
	Fuser Fan Lock Signal	Normal.					0				
	Toner Waste Container Detection Sensor	Toner Waste Container is detected.						0			
	Toner Waste Container Full Detection Sensor	Toner Waste Container is full.							1		
	Toner Bottle Motor Rotation Detection Sensor	Lock								0	
006	ADU Paper Sensor	Paper is detected.					0				
	Fuser Exit Sensor	Paper is detected.						0			
	Registration Sensor (2nd Paper Tray)	Paper is detected.							0		
	Registration Sensor	Paper is detected.								0	
008	Front / Left Cover Open Sensor 1	See Remarks.							*		Front / Left Cover is closed. Signal 1 = 0 Signal 2 = 0 Right Cover is open. Signal 1 = 1 Signal 2 = 1
	Developer Unit Detecting Sensor	Unit is connected.								1	

F4 Mode (Check Input)											
No.	**Function**	**Condition**	**Message Display**								**Remarks**
			7	**6**	**5**	**4**	**3**	**2**	**1**	**0**	
009	JAM Access Cover Open Detection Sensor (4th Paper Tray)	Cover is open.	0								
	Paper Tray Detection Sensor (4th Paper Tray)	Paper Tray is not connected.		0							
	Upper Limit Sensor (4th Paper Tray)	Upper Limit is detected.			0						
	Paper Tray Detection Sensor (4th Paper Tray)	Unit is connected.				0					
	Feed Motor Lock Signal (3rd Paper Tray)	Normal.					0				
	Paper Tray Detection Sensor 2 (3rd Paper Tray)	See Remarks.						*			Unit is connected. Signal 1 = 1 Signal 2 = 0 A different signal pattern, indicates that the unit is not connected, or CST 3 PCB is defective.
	Paper Tray Detection Sensor 1 (3rd Paper Tray)	See Remarks.							*		
010	Registration Sensor (3rd Paper Tray)	Paper is detected.		0							
	JAM Access Cover Open Detection Sensor (3rd Paper Tray)	Cover is open.			0						
	Paper Tray Detection Sensor (3rd Paper Tray)	Paper Tray is connected.				1					
	Upper Limit Sensor (3rd Paper Tray)	Upper Limit is detected.					0				
	NP Sensor (3rd Paper Tray)	Paper is not detected.						0			
	Registration Sensor (4th Paper Tray)	Paper is detected.							0		
	NP Sensor (4th Paper Tray)	Paper is not detected.								0	
011	Corona Leak Detection	Leak				0					

F4 Mode (Check Input)

No.	Function	Condition	Message Display								Remarks
			7	6	5	4	3	2	1	0	
020	Size Sensor C (Not Used)	Original detected on the C position.								1	 Front Side
	Size Sensor B (Not Used)	Original detected on the B position.							-		
	Size Sensor A (Not Used)	Original detected on the A position.						1			
	Size Sensor Z (Not Used)	Original detected on the Z position.					1				
	Size Sensor Y (Not Used)	Original detected on the Y position.				1					
	Size Sensor X (Not Used)	Original detected on the X position.			1						
021	Home Position Sensor	Home position is detected.								1	
	ADF/Platen Cover Open Sensor	ADF/Platen Cover is open.							1		
	ADF/Platen Cover Angle Sensor	ADF/Platen Cover is open more than 30° angle.						1			
	Fuser Lamp Disconnect Detection Sensor	No Lighting					-				
	+24V Line Error Detecting Signal	+24V Line is ON.				-					
030	ADF B1 Sensor	Original is detected.								1	
	ADF B2 Sensor	Original is detected.							1		
	ADF Paper Exit Detection Sensor	Original is detected.						1			
	ADF Inverting Cover Open Detection Sensor	Cover is open.					1				
	ADF Cover Open Detection Sensor	Cover is open.				1					
	ADF Detection Sensor 1	See Remarks.			*						iADF Signal 1 = 1 Signal 2 = 1 ADF Signal 1 = 1 Signal 2 = 0 A different signal pattern, indicates that the unit is not connected.
	ADF Detection Sensor 2	See Remarks.		*							
031	ADF Original Sensor	Original is detected.								1	
	ADF Original Width Sensor	Original is detected.						1			
	ADF Original Width Sensor	Original is detected.					1				
	ADF Original Length Sensor 2	Original is detected.				1					
	ADF Original Length Sensor 1	Original is detected.			1						

2. Check Output

Press the "**START**" key to start, and press the "**STOP**" key to reset.

F4 Mode (Output Check)			
No.	**Item**	**Function**	**Remark**
040	Total Counter	When SPC PCB CN715-8 signal level changes to 0V from +24V, count up the Total Counter.	
041-049	Not Used		
050	Main Motor	When SPC PCB CN723-2 signal level changes to 0V from +5V, the Main Motor activates.	
051	Toner Bottle Motor Rotation In Forward Direction	When SPC PCB CN720-16 signal level changes to 0V from +24V, the Motor rotates in the forward direction.	
052	Toner Screw Motor	When SPC PCB CN720-18 signal level changes to 0V from +24V, the Clutch activates.	
053	Power Supply Fan	When SPC PCB CN704-9,10, CN709-16 are 24V, Power Supply Fan rotates high-speed.	
054-055	Not Used		
056	Fuser Fan	When SPC PCB CN709-13 is 24V, Fuser Fan rotates.	
057-060	Not Used		
061	Registration Clutch	When SPC PCB CN715-2 signal level changes to 0V from +24V, clutch operates.	1 minute
062	Not Used		
063	Paper Feed Roller Clutch (1st Paper Tray)	When SPC PCB CN715-4 signal level changes to 0V from +24V, clutch operates.	1 minute
064	Lift Motor (1st Paper Tray)	When SPC PCB CN706-2 signal level changes to 0V from +24V, motor rotates in the ascending direction.	
065	ADU Solenoid	When SPC PCB CN728-2 signal level changes to 0V from +24V, solenoid operates.	1 minute
066-069	Not Used		
070	Paper Feed Roller Clutch (2nd Paper Tray)	When CST2 PCB CN773-2 signal level changes to 0V from +24V, clutch operates.	1 minute
071	Lift Motor (2nd Paper Tray)	When CST2 PCB CN774-2 signal level changes to 0V from +24V, motor rotates in the ascending direction.	

F4 Mode (Output Check)			
No.	**Item**	**Function**	**Remark**
072	Intermediate Roller Clutch (2nd Paper Tray)	When CST2 PCB CN773-4 signal level changes to 0V from +24V, clutch operates.	1 minute
073-074	Not Used		
075	Paper Feed Motor (3rd Paper Tray)	When CST3 PCB CN805-4 signal level changes to 0V from +5V, activate the Motor.	
076	Paper Feed Roller Clutch (3rd Paper Tray)	When CST3 PCB CN806-2 signal level changes to 0V from +24V, clutch operates.	1 minute
077	Lift Motor (3rd Paper Tray)	When CST3 PCB CN804-2 signal level changes to 0V from +24V, motor rotates in the ascending direction.	
078	Intermediate Roller Clutch (3rd Paper Tray)	When CST3 PCB CN806-4 signal level changes to 0V from +24V, clutch operates.	1 minute
079	Not Used		
080	Paper Feed Roller Clutch (4th Paper Tray)	When CST2 PCB CN773-2 signal level changes to 0V from +24V, clutch operates.	1 minute
081	Lift Motor (4th Paper Tray)	When CST2 PCB CN774-2 signal level changes to 0V from +24V, motor rotates in the ascending direction.	
082	Intermediate Roller Clutch (4th Paper Tray)	When CST2 PCB CN773-4 signal level changes to 0V from +24V, clutch operates.	1 minute
083-084	Not Used		
085	Paper Feed Roller Solenoid (Sheet Bypass)	When SPC PCB CN715-6 signal level changes to 0V from +24V, solenoid operates.	1 minute
086-119	Not Used		
120	Lamp	When SPC PCB CN656-3 signal level changes to +5V from 0V, Lamp operates.	
121-159	Not Used		
160	ADF Paper Feed Motor Rotating (35% speed rotating)	ADF paper feed motor rotates at 35% speed.	
161	ADF Paper Feed Motor Rotating (100% speed rotating)	ADF paper feed motor rotates at 100% speed.	
162	ADF Paper Feed Motor Rotating (200% speed rotating)	ADF paper feed motor rotates at 200% speed.	
163	ADF Paper Feed Motor Reverse Rotating (35% speed rotating)	ADF paper feed motor rotates in reverse at 35% speed.	

F4 Mode (Output Check)			
No.	**Item**	**Function**	**Remark**
164	ADF Paper Feed Motor Reverse Rotating (100% speed rotating)	ADF paper feed motor rotates in reverse at 100% speed.	
165	ADF Paper Feed Motor Reverse Rotating (200% speed rotating)	ADF paper feed motor rotates in reverse at 200% speed.	
166	ADF Paper Feed Roller Clutch 1	When ADF PCB CN22-10 signal level changes to 0V from +24V, clutch operates for 3 seconds.	
167	ADF Paper Feed Roller Clutch 2	When ADF PCB CN22-8 signal level changes to 0V from +24V, clutch operates for 3 seconds.	
168	ADF Paper Feed Roller Clutch 3	When ADF PCB CN24-2 signal level changes to 0V from +24V, clutch operates for 3 seconds.	
169	ADF Paper Exit Solenoid	When ADF PCB CN26-2 signal level changes to 0V from +24V, Solenoid operates for 3 second.	
170-171	Not Used		
172	ADF Solenoid	When ADF PCB CN26-5 signal level changes to 0V from +24V, Solenoid operates for 1 second.	
173	ADF Inverting Solenoid	When ADF PCB CN26-3 signal level changes to 0V from +24V, Solenoid operates for 1 second.	
174	ADF Pinch Roller Solenoid	When ADF PCB CN26-7 signal level changes to 0V from +24V, Solenoid operates for 1 second.	
175	ADF Stamp Solenoid	When ADF PCB CN25-2 signal level changes to 0V from +24V, Solenoid operates for 1 second.	

4.1.4. F5 Mode: Function Parameters (For Copier)

Set the machine to Service Mode, and press "**5**" key on the Keypad.
↓
Press the "**START**" key.
↓
Enter the desired code number, or press “**V**”, ”**/\**” arrow keys.
↓
If you wish to select another code number, scroll the menu with the arrow keys.
↓
Press the "**SET**" key.
↓
Enter the desired function code number, and press “**SET**” key.
↓
When the “**CLEAR**” key is pressed, the selected code input will not be accepted.
↓
Press “**STOP**” key, then press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.
↓
Reboot the machine after setting the parameter(s) to activate the setting(s).

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
00	Not Used		
01	Frequency Desired	0 : Auto 1 : 50 Hz 2 : 60Hz	1 (for Europe) 2 (for USA / Canada)
02	Not Used		
03	LSU Startup Speed	0 : Low 1 : Full	1
04	LSU Off Timer	1 : 5 sec. 2 : 10 sec. 3 : 15 sec. 4 : 20 sec. 6 : 30 sec. 8 : 40 sec. 10 : 50 sec. 12 : 60 sec.	3
05	Not Used		
06	Job Tracking Server	0 : No 1 : Yes	0
07-08	Not Used		
09	Fuser Lamp Control	0 : Off 1 : Auto	0 (for USA / Canada) 1 (for Europe)
10	Exit Tray Limitation (Up to 250 Sheets)	0 : None 1 : Accumulate 2 : Job	0
11	Replace Drum	0 : Off 1 : On	0
	Replace Drum (Except USA / Canada)	0 : Off 1 : User (Displays Replace Drum) 2 : Service (Enables Check & Call function)	0

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
12	Printer Fan Extension	0 : Non 2 : 2 min 5 : 5 min	5
13	Paper Out Red Indicator	0 : On 1 : Off	0
14	Paper Size Tray 1	0 : None 1 : A3 2 : B4 3 : A4 4 : A4-R 5 : B5 6 : B5-R 7 : A5 8 : A5-R 9 : 8 x 13 10 : 8.5 x 13 11 : LEDGER 12 : LEGAL 13 : LETTER 14 : LETTER-R 15 : INVOICE	1 (for Europe) 11 (for USA / Canada)
15	Paper Size Tray 2	Same as F5-14	
16	Paper Size Tray 3	Same as F5-14	(for DP-8020E/8020P)
17	Paper Size Tray 4	Same as F5-14	(for DP-8020E/8020P)
18	Not Used		
19	T Corona Current Auto Adj.	0 : No 1 : Yes	1
20	ADF	0 : No 1 : Auto	1
21	Not Used		
22	System Console	0 : No 1 : Auto	1 (for DP-8020E/8020P)
23-25	Not Used		
26	2-Sided Unit	0 : No 1 : Auto	1
27-30	Not Used		
31	ADF Duplex Scanning	0 : No 1 : Auto	1
32	Job Build, and SADF Mode	0 : No 1 : Yes	0
33	TH Sensor (Laser duty)	0 : No 1 : Mid 2 : Large	1
34-37	Not Used		
38	2-Sided Mode Default	0 : No 1 : 1 to 2 2 : 2 to 2 3 : B to 2	0
39	Not Used		

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
40	Double Count	0 : No 1 : LDR 2 : LDR, LGL 3 : A3 4 : A3, B4	1 (for USA / Canada) 3 (for Europe)
41	Count Up Timing	0 : At feed 1 : At exit	1
42	KEY/DEPT. Counter	0 : No 1 : Key Cntr 2 : DEPT. 3 : Card	0
43	Key Counter Timing	Same as F5-41	0
44	Not Used		
45	Dept Code Reentry Again	0 : Yes 1 : No	0
46	Not Used		
47	TH Sensor (T corona current)	0 : No 1 : Mid 2 : Large	1
48	TH Sensor (DEV)	0 : No 1 : Mid 2 : Large	1
49	Not Used		
50	Auto Contrast Adjust	0 : No 1 : Yes	1
51	Dept. Counter (COPY)	0 : No 1 : Yes	1
52	Dept. Counter (FAX)	0 : No 1 : Yes	0
53	2-Sided Auto Shift	0 : No 1 : Auto sft	0
54	Margin Reduction	0 : No 1 : Yes	0
55	Margin Value Default	0 : 5 mm 1 : 10 mm 2 : 15 mm 3 : 20 mm	1
56	Edge Value Default	0 : 5 mm 1 : 10 mm 2 : 15 mm 3 : 20 mm	0
57	Book Value Default	0 : 15 mm 1 : 20 mm 2 : 25 mm 3 : 30 mm	1
58	U14 Clear	0 : Continue 1 : Any Keys	1
59	Oper. Add Toner Alarm	0 : Stop 1 : Continue	0

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
60	Auto Tray Selection	0 : No 1 : Yes	1
61	TDC Auto Adj. (DEV Conditions)	0 : No 1 : Yes	1
62	TDC Auto Adj.(DEV life)	0 : No 1 : Yes	0
63	U13 Clear	0 : Any keys 1 : Func + 1	0
64	Dept. Counter (SCANNER)	0 : No 1 : Yes	1
65	Dept. Counter (PRINTER)	0 : No 1 : Yes	1
66-68	Not Used		
69	Reduce N in 1 Space	0 : No 1 : Yes	0
70	PM Cycle	0 : No 1 : 1.5 K 2 : 2.5 K 3 : 5 K 4 : 10 K 5 : 15 K 6 : 20 K 7 : 30 K 8 : 40 K 9 : 60 K 10 : 80 K 11 : 90 K 12 : 120 K 13 : 150 K 14 : 200 K 15 : 240 K	12
71	Add Toner Time Limit	0 : Unlimited 1 : 1/3 Limited 2 : 2/3 Limited	0
72-75	Not Used		
76	TH Sensor (Corona, Grid)	0 : No 1 : Yes	1
77	TH Sensor (Bias DC)	0 : No 1 : Yes	1
78	A4/LTR Size Select	0 : No 1 : Yes	0
79	Not Used		

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
80	Paper Size Priority	1 : A3 2 : B4 3 : A4 4 : A4-R 5 : B5 6 : B5-R 7 : A5 8 : A5-R 9 : 8 x 13 10 : 8.5 x 13 11 : LEDGER 12 : LEGAL 13 : LETTER 14 : LETTER-R 15 : INVOICE	3 (for Europe) 13 (for USA / Canada)
81	B4/FLS Size Selection	0 : B4 1 : 8 x 13 2 : 8.5 x 13	0
82	Manual Skyshot Mode	0 : Off 1 : M1, On 2 : M2, On 3 : M1, M2, On	0
83	Digital Skyshot Mode	0 : No 1 : Normal 2 : Quality	1
84	Paper Tray Priority	0 : S > C > B 1 : C > S > B	1
85	Side Void Setting (ADF)	0 : None 1 : Yes	0
86	PM Cycle (Optics)	0 : No 1 : 40 K 2 : 60 K 3 : 120 K 4 : 240 K 5 : 360 K 6 : 480 K 7 : 600 K	0
87	PM Cycle (ADF)	0 : No 1 : 40 K 2 : 60 K 3 : 120 K 4 : 240 K 5 : 360 K 6 : 480 K 7 : 600 K	0
88	USB Port Function	0 : Off 1 : Once 2 : ON	0

F5 Mode			
No.	**Item**	**Function**	**Default Setting**
89	LAN Speed/Duplex	0 : Auto 1 : 10 Half 2 : 10 Full 3 : 100 Half 4 : 100 Full	0
90	TCH Panel Beep Sound	0 : Off 1 : Soft 2 : Loud	1
91	M1, Size Y	Set the default size for Manual Skyshot Mode, M1, and M2.	160
92	M1, Size X		70
93	M2, Size Y		220
94	M2, Size X		95
95	Paper Size (FA)	**(Factory use only)**	1 (for USA / Canada) 2 (for Europe)
96	Bypass Detection (FA)		1 (for USA / Canada) 2 (for Europe)
97	BP Tray B4/FLS/LGL (FA)		0 (for Europe) 3 (for USA / Canada)
98	TH Sensor (Laser Power)	0 : No 1 : Mid 2 : Large	1
99	Not Used		

4.1.5. F6 Mode: Adjust Parameters (For Copier)

Set the machine to Service Mode, and press "**6**" key on the Keypad.

↓

Press the "**START**" key.

↓

Enter the desired code number, or press “**V**”, ”/\” arrow keys.

↓

If you wish to select another code number, scroll the menu with the arrow keys.

↓

Press the "**SET**" key.

↓

Enter the desired function code number, and press “**SET**” key.

↓

When the “**CLEAR**” key is pressed, the selected code input will not be accepted.

↓

Press “**STOP**” key, then press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.

↓

Reboot the machine after setting the parameter(s) to activate the setting(s).

Note:

The Factory Setting is different in each model.

F6 Mode			
No.	**Item**	**Remarks**	**Setting Range**
00	Adj 100% Side-Side Read	Adjustment for identical vertical (side-to-side) size ratio.	-9 - +9 0.1%
01	Adj 100% Lead-Tail Read	Adjustment for identical horizontal (top-to-bottom) size ratio.	-9 - +9 0.1%
02	100% Selection	Adjustment from 99.1% to 100.9%	-9 - +9 0.1%
03	Original Registration	Adjustment of platen original registration detection timing.	-30 - +30 0.2mm
04	Printer Registration	Delay time is adjusted from registration roller clutch ON.	-50 - +50 0.5mm
05	Main Motor Speed	Adjustment of Main Motor speed.	-10 - +10 0.1%
06	Polygon Motor Speed	Adjustment Polygon Motor speed.	-5 - +5 0.1%
07	Registration Void	Registration void should be adjusted.	0 - +99 0.5mm
08	Trail Edge Read Timing	Adjustment of trail edge void.	-9 - 0 0.5mm
09	Trail Edge Print Timing	Adjustment of trail edge void.	-9 - +15 0.5mm
10	Side Adjust (Bypass)	Adjustment of LSU side-side (Sheet Bypass).	-8 - +7 0.5mm
11	Side Adjust (Tray 1)	Adjustment of LSU side-side (1st Tray).	-8 - +7 0.5mm
12	Side Adjust (Tray 2)	Adjustment of LSU side-side (2nd Tray).	-8 - +7 0.5mm
13	Side Adjust (Tray 3)	Adjustment of LSU side-side (3rd Tray).	-8 - +7 0.5mm

F6 Mode			
No.	**Item**	**Remarks**	**Setting Range**
14	Side Adjust (Tray 4)	Adjustment of LSU side-side (4th Tray).	-8 - +7 0.5mm
15	Not Used		
16	Side Adjust (ADU)	Adjustment of LSU side-side (ADU).	-8 - +7 0.5mm
17	Standard Grid Voltage	Charge voltage compensation adjustment.	-128 - +19 2.0V
18	Standard Laser Power	Laser power compensation adjustment.	-19 - +38 0.05mW
19	Std Bias DC Voltage	Adjustment of bias standard voltage.	-128- +48 2.6V
20	Not Used		
21	TDC Gain Voltage	Adjustment of toner density sensor gain voltage.	-70 - +57 0.033V
22	DC Bias ON timing	**(Factory use only)**	-10 - +10 0.01Sec.
23	DC Bias OFF timing	**(Factory use only)**	-10 - +10 0.01Sec.
24-25	Not Used		
26	TDC Judgment Level	Adjustment of toner supply starting judgement voltage level.	-26 - +26 0.02V
27-29	Not Used		
30	Light Halftone Adj.	Halftone duty ratio adjustment	-127 - +127
31	Fuser Temperature	Adjustment of fuser temperature.	-15 - +15 0.833°C
32	Fuser Edge Temperature	Temperature compensation for edges	-15 - +15 0.833°C
33	TDC Max. Read Only	Set by F8-20 TDC Check Operation	-99 - +99 (Read only)
34	TDC Min. Read Only	Set by F8-20 TDC Check Operation	-99 - +99 (Read only)
35	TDC Avg. Read Only	Set by F8-20 TDC Check Operation	-99 - +99 (Read only)
36	Paper Loop (Tray 1)	Individual Fine Adjustment for Tray 1	-99 - +99
37	Not Used		
38	F8-09 (TDC) Adjustment time	**(Factory use only)**	-1 - +5 60Sec.
39	LSU Unit PWM Adjust	Adjustment of PWM value of LSU.	-32 - +32
40	Transfer Current Side 1	Adjustment of Transfer Current.	-62 - +110 0.15uA
41	Paper Loop (Bypass)	Individual Fine Adjustment for Sheet Bypass	-99 - +99
42	Paper Loop (Tray 2)	Individual Fine Adjustment for Tray 2	-99 - +99
43	Paper Loop (2-Sided)	Adjustment for the length of the loop formed before the copier timing roller.	-99 - +99
44	FAX Laser Duty Adj	Printer Density Adjustment for FAX. (-) : Darker. (+) : Lighter.	-99 - +99
45	Not Used		

F6 Mode			
No.	**Item**	**Remarks**	**Setting Range**
46	PRINTER Laser Duty Adj	Printer Density Adjustment for Printer. (-) : Darker. (+) : Lighter.	-99 - +99
47	Transfer Current Side 2	Adjustment of Transfer Current.	-62 - +110 0.15uA
48	Transfer Current Envelope	Adjustment of Transfer Current.	-62 - +110 0.15uA
49	T Mode Image Density	Image density adjustment for Text mode. (-) : Darker. (+) : Lighter.	-99 - +99
50	T/P Mode Image Density	Image density adjustment for Text/ Photo mode. (-) : Darker. (+) : Lighter.	-99 - +99
51	P Mode Image Density	Image density adjustment for Photo mode. (-) : Darker. (+) : Lighter.	-99 - +99
52	Not Used		
53	CCD Read Position Adj	Adjustment of CCD read position.	-42 - +44 0.2mm
54	T Mode Contrast	Adjustment of Contrast for Text Mode.	-128 - +127
55	T/P Mode Contrast	Adjustment of Contrast for Text/Photo Mode.	-128 - +127
56	P Mode Contrast	Adjustment of Contrast for Photo Mode.	-128 - +127
57	Not Used		
58	Corona Charger Current	Adjustment of Corona Charge Current.	-77 - +76 1.3uA
59	Trail Edge Trans (Trays)	Trail Edge Transfer Image High Voltage Timing Adjustment for Trays 1-4 feeding.	-30 - +30 0.5mm
60	Trail Edge Trans (Bypass)	Trail Edge Transfer Image High Voltage Timing Adjustment for Bypass Tray feeding.	-30 - +30 0.5mm
61	Trail Edge Trans (2Sided)	Trail Edge Transfer Image High Voltage Timing Adjustment for the 2nd side of 2-Sided printing.	-30 - +30 0.5mm
62	TDC Gain Voltage Adjust	Adjustment of Toner Density sensor gain voltage.	-10 - +10 0.033V
63	Lead Edge Read Timing (Adjustment for Double Exposure Copy Mode, for details, and adjustment procedure, refer to Sect. 2.9.8)	Adjustment of Lead Edge Read Point.	0 - +9 0.5mm
64	Side Edge Read Adjust (Adjustment for Double Exposure Copy Mode, for details, and adjustment procedure, refer to Sect. 2.9.8)	Adjustment of Side Edge Read Point.	0 - +9 0.5mm
65	Transfer Current Side 1 (Small Width)	**(Factory use only)**	-20 - +20 0.15uA
66	Transfer Current Side 2 (Small Width)	Transfer Current (Not Use)	-20 - +20 0.15uA

F6 Mode

No.	Item	Remarks	Setting Range
67	ADF Image Density	Compensation of ADF image density.	-99 - +99
68	Paper Loop (Tray 3)	Individual Fine Adjustment for Tray 3	-99 - +99
69	Stamp Position Adjust	Adjustment of verification stamp position.	-50 - +50 0.3mm
70	Not Used		
71	ADF Read Main Scan Pos. (Reverse Side)	Adjustment of ADF horizontal image read start position.	-99 - +99 0.05mm
72	Original Lead Edge ADF (Reverse Side)	Adjustment of ADF Original Lead Edge	-99 - +99 0.3mm
73	Original Trail Edge ADF (Reverse Side)	Adjustment of ADF Original Trail Edge	-127 - +127 0.3mm
74	Stamp Position Adjust (Reverse Side)	Adjustment of Stamp Position	-50 - +50 0.3mm
75-76	Not Used		
77	Add Toner Level	Adjustment of Toner supply (Not Use)	-1 - +1 1
78	Paper Loop (Tray 4)	Individual Fine Adjustment for Tray 4	-99 - +99
79	MTF Adjust	Adjustment of Scanning Sharpness by digital image processing for Text /Photo Copy Mode.	-2 - +2 1
80	Laser Power Control	**(Factory use only)**	-99 - +99 (Read Only)
81	Grid voltage Control		-99 - +99 (Read Only)
82	Bias DC Voltage Control		-99 - +99 (Read Only)
83	Temperature Sensor Value	Value of Temperature sensor.	0 - 255 (Read Only)
84	Humidity Sensor Value	Value of Humidity sensor.	0 - 255 (Read Only)
85	Not Used		
86	ADF Reverse Stop Posi.	Adjustment of ADF reverse stop position.	-99 - +99 0.3mm
87	ADF Exhaust Stop Posi.	Adjustment of ADF exit stop position	-99 - +99 0.3mm
88-89	Not Used		
90	ADF Image Read Start	Adjustment of ADF horizontal image read start position.	-99 - +99 0.05mm
91	Original Lead Edge ADF	Adjustment of original detection timing.	-99 - +99 0.3mm
92	Original Trail Edge ADF	Adjustment of trail edge detection timing.	-127 - 127 0.3mm
93	ADF 100% Image 1-Sided	Adjustment of magnification for 1-sided.	-9 - +9 0.1%
94	ADF 100% Image 2-Sided	Adjustment of magnification for 2-sided.	-9 - +9 0.1%
95-96	Not Used		
97	**(Factory use only)**		
98	Not Used		

F6 Mode			
No.	**Item**	**Remarks**	**Setting Range**
99	F5/F6 Initialization	Initialize F5/F6 parameter settings.	

4.1.6. F7 Mode: Electronic Counter

Set the machine to Service Mode, and press "**7**" key on the Keypad.

↓

Press the "**START**" key.

↓

Enter the desired code number, or press “**V**”, ”/\” arrow keys.

↓

If you wish to select another code number, scroll the menu with the arrow keys.

↓

Press the "**SET**" key.

↓

Enter the desired function code number, and press “**SET**” key.

↓

When the “**CLEAR**” key is pressed, the selected code input will not be accepted.

↓

Press “**STOP**” key, then press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.

↓

Reboot the machine after setting the parameter(s) to activate the setting(s).

F7 Mode		
No.	**Item**	**Remarks**
01	Key Operator ID Code	Key Operator’s identification code for access to the counter mode.
02	Total Count	Total count for all copies / prints.
03	PM Count	Preventive Maintenance count.
04	Scanner PM Count	PM count for scanner readings.
05	Not Used	
06	OPC Drum Count	PM count of recording paper fed through the OPC Drum.
07	Process Unit Count	PM count of recording paper fed through the Process Unit.
08	ADF PM Count	PM count of originals fed through the ADF.
09	Not Used	
10	Developer Count	PM count of recording paper fed through the Developer.
11	Sheet Bypass Count	Total count of paper fed from the sheet bypass.
12	1st Paper Tray Count	Total count of paper fed from the 1st paper tray.
13	2nd Paper Tray Count	Total count of paper fed from the 2nd paper tray.
14	3rd Paper Tray Count	Total count of paper fed from the 3rd paper tray.
15	4th Paper Tray Count	Total count of paper fed from the 4th paper tray.
16	2-sided Count	Total count of 2-sided Print.
17	ADF Count	Total count of originals fed through the ADF.
18	ADF Read Count	Total count of originals scanned through the ADF.
19	Scanner Count	Total count of scanning operations.
20	Scanner Read Count	Total count of scanner readings.
21	Copy Print Count	Total count of copies printed.
22	Copy Scan Count	Total count of copies scanned.
23	PC Print Count	Total count printed from PC.
24	PC Scan Count	Total count scanned to PC.

F7 Mode		
No.	**Item**	**Remarks**
25	Fax Transmit Count	Total count of Fax transmitted.
26	Fax Receive Count	Total count of Fax received.
27	Fax Print Count	Total count of Fax printed.
28	Total OPC Rotation Time	Total Time of OPC Rotation.
29	A4/LT Count	Total count of A4 / Letter Print.
30	A4R / LETTER R Count	Total count of A4-R / Letter-R Print.
31	A3 / Ledger Count	Total count of A3 / Ledger Print.
32	B4 / LEGAL Count	Total count of B4 / Legal Print.
99	All Counter Clear	All counters are cleared.

4.1.7. F8 Mode: Service Adjustment

Set the machine to Service Mode, and press "**8**" key on the Keypad.
↓
Press the "**START**" key.
↓
Enter the desired code number, or press “**V**”, ”/\” arrow keys.
↓
If you wish to select another code number, scroll the menu with the arrow keys.
↓
Press the "**SET**" key.
↓
Enter the desired function code number, and press “**SET**” key.
↓
When the “**CLEAR**” key is pressed, the selected code input will not be accepted.
↓
Press “**STOP**” key, then press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.
↓
Reboot the machine after setting the parameter(s) to activate the setting(s).

F8 Mode		
No.	**Item**	**Remarks**
00	Exp. Lamp Replacement	When replacing the exposure lamp. Procedure: a) Press the Start key to move the exposure lamp to the position (approx. 250 mm from the optics home position) where it can be replaced. b) To return the optical system to the home position, press the CLEAR key.*
01-05	Not Used	
06	Error Log Print/View	a) Each time the arrow key is pressed, the machine errors, or paper jam codes stored in memory are displayed, beginning with the oldest code. **Note:** Only the 30 most recent codes are displayed.
07	Error Log Clear	a) Press the Reset key. A Message "Error code can be cleared with the Start key" is displayed on the LCD.* b) Press the Start key.
08	**(Factory use only)**	Lock operation for Scanner Unit.
09	Toner Density Adjustment	Adjustment operation of Toner Density.
10	Drum Charge Adjustment	Adjustment operation of Drum Charge.
11	Not Used	
12	Org.size Sensor Adj. (Not Used)	Adjust the slice level for the original size detection sensors automatically. Execute this mode by closing the platen cover.
13	Black Density Reference (Not Used)	Adjustment operation of Black Density sensor.
14	OPC Counter Reset	Proceed when OPC is replaced.
15-17	Not Used	
18	LSU PWM Pattern	Print out the Test Pattern. Proceed when the LSU is replaced.

F8 Mode		
No.	**Item**	**Remarks**
19	Move Mirror To Lock	a) Press the Start key to move the mirror unit to the locked position for transporting the copier. b) When the mirror unit is locked, the machine will not accept any numerical key input. **Note:** The locking operation is automatically reset when the Power switch is turned ON again.
20	TDC Check Operation	Adjustment of TDC sensor.
21-46	Not Used	
47	ADF Continuous Test	Press START key to begin.
48	Platen Continuous Test	Press START key to begin.

4.1.8. F9 Mode: Unit Maintenance

Set the machine to Service Mode, and press "**9**" key on the Keypad.
↓
Press the "**START**" key.
↓
Enter the desired code number, or press “**V**”, ”/\” arrow keys.
↓
If you wish to select another code number, scroll the menu with the arrow keys.
↓
Press the "**SET**" key.
↓
Enter the desired function code number, and press “**SET**” key.
↓
When the “**CLEAR**” key is pressed, the selected code input will not be accepted.
↓
Press “**STOP**” key, then press “**FUNCTION**”, and “**CLEAR**” keys simultaneously to exit the service mode.
↓
Reboot the machine after setting the parameter(s) to activate the setting(s).

F9 Mode						
Service Mode	**Item**					**Remarks**
F9	Unit Maintenance	00	Fax Service Mode			
		01	Service Alert Tel #			Displays the contact number when a machine malfunction occurs.
		02	Firmware Version	00	SC	Displays the firmware version for SC.
				01	SC Boot	Displays the firmware version for SC Boot.
				02	PNL	Displays the firmware version for PNL.
				03	SPC	Displays the firmware version for SPC.
				04	Not Used	
				05	FAX Modem	Displays the firmware version for FAX option 1.
				06	Not Used	
				07	SC2	Displays the firmware version for Slot 1.
		03	Print Device Info.	00	F5/F6 Parameters	Prints the memory contents of the F5, and F6 modes.
				01	Machine Information	Prints the machine setup information list.
				02	Counter Information	Prints the Counter information list.
				03	System Address Info.	Prints the system memory setting.
				04	RAM Address Information	Prints the RAM data dump list.
		04	RAM Edit Mode	0	Relative Address	Setting of Relative address.
				1	Absolute Address	Setting of Real address.
		05	Serial Number			Registration of Serial Number for Maintenance. Clears by Shipment Set.

F9 Mode						
Service Mode	**Item**					**Remarks**
F9	Unit Maintenance	06	RAM Initialize	00	Parameter Initialize	Resets the Fax, and Function parameters to default values. **Note:** Turn the Power Switch to the **OFF**, and back to the **ON** position to enable the parameter settings.
				01	All Job Clear	Clears all Jobs stored in Flash Memory.
				02	LBP Error Log Clear	Clears LBP Error log
				03	Shipment Set	Clears All Jobs, All Preset Data, Parameter Initialize & Resets the Counters (Fax).
				04	LBP Fuser Reset	Clears the LBP fuser error.
				05	Dept. Counter Clear	Resets the Counter
				06	Flash Memory Clear	Clears the Flash Memory Data
		07	Firmware Update	00	Update FROM Card	Updates the firmware in the machine with the Master Firmware Card.
				01	Update from USB	Updates the firmware in the machine with the USB.
		08	Program Backup (Refer to Sect. 2.7.)	00	Main	Onboard F-ROM 4MB
				01	Option 1 all	Slot 1 FRM8 PCB 8MB
				02	Option 1 a	Slot 1 FRM8 PCB 4MB (a)
				03	Option 1 b	Slot 1 FRM8 PCB 4MB (b)
				04	Not Used	Slot 2 FRM8 PCB 8MB
				05	Not Used	Slot 2 FRM8 PCB 4MB (a)
				06	Not Used	Slot 2 FRM8 PCB 4MB (b)
		09	Update Program Card			Creates a Master Firmware Card using the Firmware Update Kit. A 4MB, or 8MB Flash Memory Card will be required depending upon the model.
		10	Program Copy	00	From card to slot 1	Configuration for Program copy.
				01	Not Used	
				02	From slot 1 to card	
				03	Not Used	
				04	Not Used	
				05	Not Used	
		11	Parameter Backup			Backup the Parameter.
		12	Parameter Restore			Restore the Parameter.
		13	Page Memory Size			Displays the page memory size (MB).
		14	Sort Memory Size			Displays the sort memory size (MB).

4.2. Service Modes (For Facsimile)

Caution:

The factory default parameters are preset (destination dependent) for optimum performance, and in compliance with the local telecommunication regulations/standards, and do not need to be changed. Changing some of these parameters may cause the unit to be no longer compliant, or become inoperable.

4.2.1. Fax Service Mode Procedure

1. To enter the Fax Service Mode
   a. Press “**FAX/EMAIL**” key.
   b. Press “**FUNCTION**”, and then “**7**” keys.
   c. Press “**MONITOR**” four times, then press “*****”.
   d. Enter the desired code number, or press the “**V**”, ”/\” arrow keys.

2. To exit the Fax Service Mode
   Press “**STOP**” key.

Note:

The following buttons provide these functions in the Service Mode:

"START": : The new setting value is stored in the machine.
"V” : Scroll the function parameter number down.
"/\ “ : Scroll the function parameter number up.

4.2.2. FAX Service Mode Table

The following service modes are provided to assist you in setting operational functions of the unit, and determining the condition of the unit.

Service Modes (For Facsimile)		
No.	**Service Mode**	**Description**
00	Not Used	
01	Function Parameter Setting	Allows changes to the function parameters (the home position, etc.).
02	RAM Edit Mode	**(Factory use only)**
03	Print Parameter List / Report	Prints the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace, and Toner Order Form.
04	Modem Tests	Generates various binary, tonal, and DTMF signals, by the modem.
05	Not Used	
06	RAM Initialize	Initialize RAM, and restore the default value of the function parameters. **Note:** Turn the Power Switch to the **OFF**, and back to the **ON** position to enable the parameter settings.
07	Not Used	
08	Check & Call	Allows input of information for Service Alert Report, Maintenance Alert Report, and Toner Order Form.
09	System Maintenance	Used for Firmware Update, Firmware Backup, Parameter Restore, Parameter Backup, Transferring Firmware from the PC to the Flash Card, and Sending a Received File during a fatal printer error.

4.2.3. Fax Service Mode 1 (Function Parameter Setting)

Use the following procedure to change the function parameters.

Enter the desired code number, and press “**START**” key.

↓

If you wish to select another code number, scroll the menu with the “**V**”, ”/\” arrow keys.

↓

Select the desired function code, and press the "**START**" key.

↓

When the “**CLEAR**” key is pressed, the selected code input will not be accepted.

↓

Press “**STOP**” key twice to exit the service mode.

Function Parameter Table

No.	Parameter	Selections	Function
000	Monitor/Tel Dial	1 = Monitor 2 = Tel/Dial	Selects whether the machine starts to TX automatically during On-Hook dialing. **Monitor** : Start to TX after pressing START **TEL/DIAL** : Start to TX automatically
001	Alarm Status	1 = Off 2 = Timer 3 = Constant	Selects the No Paper, or No Toner alarm status. **OFF** : Alarm is disabled. **Timer** : Alarm will shut off after 6 seconds. **Constant** : Alarm will not stop until "STOP" is pressed, or the error is cleared/ corrected.
002	Stop Comm. JRNL	1 = Off 2 = On	Selects whether the machine prompts to print the COMM. Journal when the printout condition is set to INC, and STOP is pressed during communication.
003	Continuous Poll	1 = Off 2 = Stn (Tx only) 3 = Hub (Rx only)	Selects whether the Continuous Polling feature is enabled. **Stn** : Place the document(s) on the ADF, or Platen, then press the assigned Program Key to store, or add the documents into a polled file. (See Note 1) **Hub** : When the polling command is initiated, the machine will continuously poll originals from the remote stations until it is interrupted by pressing "STOP".
004	Numeric ID Set	1 = Off (will not accept) 2 = On (accepts)	Selects whether the machine accepts, and allows to set, or change the Numeric ID.

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
005	Destination Code	000 : Austria 001 : U.K. 002 : Canada 003 : Denmark 004 : Taiwan 005 : Finland 006 : Germany 007 : Netherlands 008 : Italy 009 : Spanish 010 : Hong Kong 011 : Australia 012 : Switzerland 013 : Norway 015 : Portuguese 016 : Ireland 017 : Belgium 018 : Sweden 019 : Turkey 020 : U.S.A. 021 : France 022 : New Zealand 025 : Japan 029 : Poland 030 : Czech 031 : Russia 032 : Greece 033 : Hungary 034 : Indonesia 035 : South Korea 038 : Malaysia 039 : China 045 : Thailand 048 : South Africa 049 : Singapore 050 : Universal 051 : East Euro	Specified destinations only.
006	ID Display	1 = Number (Numeric ID) 2 = Chara (Character ID)	Selects the priority of displaying the ID.
007	JRNL Column	1 = Station 2 = RCV'D ID	Selects the contents of the ID to display on the Journal.
008	Monitor	1 = Off 2 = On	Selects whether the Monitor is ON/OFF for monitoring fax signals. **(FOR SERVICE USE ONLY)**
009	DC Loop	1 = Off (Normal) 2 = On (Off Hook)	Selects a false Off Hook state for back to back communication test.
010	TX Level	00 = 0 dBm ~ 15 = -15 dBm	Selects the TX signal output level, 0 to -15 dBm in 1 dBm steps. (Refer to Chapter 4.3.of the Service Manual)
011	RX Level	1 = -43 dBm 2 = -38 dBm 3 = -33 dBm 4 = -48 dBm	Selects the receiving sensitivity of -33/-38/-43/-48 dBm.

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
012	DTMF Level	00 = 0 dBm ~ 15 = -15 dBm	Selects the DTMF output level, 0 to -15 dBm in 1 dBm steps.
013	G3 RX EQL	1 = 0dB 2 = 4dB 3 = 8dB 4 = 12dB	Selects the cable equalizer for G3 reception mode, 0dB, 4dB, 8dB, or 12dB.
014	G3 TX EQL	1 = 0dB 2 = 4dB 3 = 8dB 4 = 12dB	Selects the cable equalizer for G3 transmission mode, 0dB, 4dB, 8dB, or 12dB.
015 ~ 016	Not Used		
017	TX Start	2400 bps 4800 bps 7200 bps 9600 bps TC7200 TC9600 12000 bps 14400 bps	Selects the transmission modem start speed, 14400/12000/TC9600/TC7200/9600/7200/4800/2400 bps. Press “V”, or “/\ “ to select the symbol rate. **Note:** This parameter is applicable only when communicating with regular G3 machines. When communicating with Super G3 (V.34) machines, use Parameter No. 32.
018	RX Start	2400 bps 4800 bps 7200 bps 9600 bps TC7200 TC9600 12000 bps 14400 bps	Selects the reception modem start speed, 14400/12000/TC9600/TC7200/9600/7200/4800/2400 bps. Press “V”, or “/\ “ to select the symbol rate. **Note:** This parameter is applicable only when communicating with regular G3 machines. When communicating with Super G3 (V.34) machines, use Parameter No. 33.
019	ITU-T V.34	1 = Off 2 = On 3 = Select	Selects whether the ITU-T V.34 is Off, On, or Select. **Select**: Select whether the ITU-T V.34 is Off, or On, when entering Phone Book Dialing Numbers, or Manual Number Dialing.
020	ITU-T ECM	1 = Off (Invalid) 2 = On (Valid)	Select the ECM mode.
021	EP Tone	1 = Off (without EP Tone) 2 = On (with EP Tone)	Selects whether to add the echo protect tone on V.29 mode. (Used when Echo Suppression is disabled.) **On** : Add **Off** : Do not add
022	Signal Interval	1 = 100 ms 2 = 200 ms 3 = 500 ms	Selects the time interval between the receiving signal, and the transmitting signal.
023	TCF Check	1 = Normal (Short) 2 = Long	Selects the TCF check interval Long/Short
024	CED Frequency	1 = 1080 Hz (non ITU-T) 2 = 2100 Hz	Selects the CED frequency 2100/1080 Hz
025	COMM. Start-Up	1 = First 2 = Second	Selects the communication start-up condition (XMT, and Polling). (Used when Echo Suppression is disabled.)

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
026	Non-Standard	1 = Off (Invalid) 2 = On (Valid)	Selects own mode (Panafax mode).
027	Short Protocol B	1 = Off (Invalid) 2 = On (Valid)	Selects the short protocol mode.
028	Short Protocol D	1 = Off (Invalid) 2 = On (Valid)	Selects the short protocol mode. When activated, it allows the machine to automatically store the modem speed for each Auto Dial Number.
029	Remote Diagnostics	1 = Off (will not accept) 2 = On (accepts)	Selects whether the machine accepts Remote Diagnostics from the service station.
030	CED & 300 bps	1 = 75 ms 2 = 1 sec	Selects the pause interval between the CED, and the 300 bps signal. (Used when Echo Suppression is disabled.)
031	RTC = EOL x 12	1 = Off (EOLx6) 2 = On (EOLx12)	Selects the RTC signal, EOLx6, or EOLx12.
032	V34 TX Start	2400-33600bps	Selects the transmission modem start speed for V.34 communication, 33600-2400 bps. Press “V”, or “/\ “ to select the symbol rate.
033	V34 RX Start	2400-33600bps	Selects the receiving modem start speed for V.34 communication, 33600-2400 bps. Press “V”, or “/\ “ to select the symbol rate.
034	V34 TX SR	2400-3429sr	Selects the transmission symbol rate for V.34, 3429/3200/3000/2800/2400 sr. Press “V”, or “/\ “ to select the symbol rate.
035	V34 RX SR	2400-3429sr	Selects receiving symbol rate for V.34, 3429/3200/3000/2800/2400 sr. Press “V”, or “/\ “ to select the symbol rate.
036	Not Used		
037	Protocol Display	1 = Off (not displayed) 2 = On (displayed)	Selects whether to display the modem speed during communication. (Press the Job Status Key to display)
038	Not Used		
039	Flash Time	5 = 50 ms ~ 100 = 1000 ms	Selects the pause interval before activating the Flash key.
040	Flash Time (PSTN)	5 = 50 ms ~ 100 = 1000 ms	Selects the pause interval before activating the Flash key. (For Germany, Austria, and Czech)
041	Pause Time	1 = 1 sec. ~ 10 = 10 sec.	Selects the pause interval from 1 sec. ~ 10 sec. for dialing through a switchboard, or for international calls.
042	Not Used		
043	Redial Interval	0 = no waiting ~ 15 = 15 minutes	Selects the redial interval from 0 to 15 minutes in 1 minute steps.
044	Redial Count	0 = no redial ~ 15 = 15 times 0 ~ 9 (For Australia Only)	Selects the redial count from 0 to 15 times in 1 step intervals. **Note:** In order to comply with the requirements TBR21 in the EC countries, do not select 15 times.

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
045	Ring Detect Count	1 = 1 ring ~ 9 = 9 rings	Selects the ring detection count from 1 to 9 rings in 1 ring step intervals.
046	On-Hook Time	0 = 0 sec. ~ 90 = 90 sec.	Selects the on-hook time between sequential communication calls in 1 second step intervals.
047	Response Wait Interval	1 = 1 sec. ~ 90 = 90 sec. 20 ~ 150 sec. (For France Only)	Selects the waiting interval for the response after completing the dialing.
048~ 049	Not Used		
050	Ring Detect Mode	1 = Normal 2 = Rough	Selects the quality of ringer detection. Use if the line signal is out of regulation, set to "Rough" so that the unit may detect the ringing signals.
051	Not Used		
052	Pulse Rate	1 = 10 pps 2 = 20 pps	Selects the dial pulse rate 10/20 pps.
053~ 054	Not Used		
055	Busy Tone Check	1 = Off 2 = On	Selects whether to detect the Busy Tone.
056	Dial Tone Check	1 = Off 2 = On	Selects whether to detect Dial Tone before dialing the telephone number.
057	DC Loop Check (Except for USA, and Canada)	1 = Off 2 = On	Selects whether the unit checks the DC Loop during communication.
058	Comm. JRNL + Image	1 = Off (without image) 2 = On (with image)	Selects whether the machine prints the COMM. Journal with image.
059	Confidential RCV Report	1 = Off (does not print out) 2 = On (prints out)	Selects whether the machine prints the Confidential RCV Report.
060	Version	Indicates the Host software version.	
061	TX/RX/PRT/CPY	TX:****** PRT:****** RX:****** CPY:******	Displays the transmitted, received, total printed, and copied document count.
062	Print Counter	1 = Off 2 = On	Selects whether to print in the Fax Parameter List, the counter information that is displayed in the Function Parameter No. 61.
063~ 067	Not Used		
068	NYSE Fax Forward (USA, and Canada Only)	1 = Off 2 = On	Selects whether the machine will forward the incoming, and outgoing faxes to a specified station. **Note:** Once this parameter is activated, Fax Forwarding via Fax Parameter No. 054 is automatically disabled, an Access Code of "0000" is automatically assigned, and Fax Parameter No. 038 has a new setting added called "NYSE".

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
069	NYSE Local Print (USA, and Canada Only)	1 = Inc 2 = On (Always)	Selects the printing condition for the incoming faxes after FAX Forwarding. **INC.** : Prints only if FAX Forwarding fails. **ON** : Always prints.
070	Line Error	128 lines 256 lines 512 lines 1024 line 2048 lines Off (will not disconnect line)	1. Selects the line disconnect condition during reception. If the number of line errors exceed this setting, the unit will disconnect the line. Press “V”, or “/\ “ to select the symbol rate. 2. Selects the transmit condition of RTP/PIP, or RTN/PIN. (Available if No. 73 Error Detect is set to "LINES") (See Note 1)
071	Total Error	1 = 5% 2 = 10% 3 = 15% 4 = 20%	Selects the transmit condition of RTP/PIP, or RTN/PIN. (Available if No. 73 Error Detect is set to "RATE".) (See Note 2)
072	Continuous Error	1 = Off (unlimited) 2 = 3 lines/STD 3 = 6 lines/STD 4 = 12 lines/STD	Selects the continuous total error criteria of Off/3/6, or 12 lines in Standard mode. If continuous total error exceeds this setting, the unit will transmit RTN/PIN. (Available if No. 73 Error Detect is set to "RATE".)
073	Error Detect	1 = Lines 2 = Rate	Selects the error detect condition Lines/Rate.
074	RTN Receive	1 = Disconnect 2 = Continue	Selects whether to disconnect the phone line, or continue when "RTN" is received.
075	Coding	1 = MH (MH only) 2 = MR (MH, or MR) 3 = MMR (MH, MR, or MMR) 4 = JBIG	Selects the coding scheme.
076	Batch TX	1 = Off 2 = On	Selects whether the batch transmission is available.
077	RX JAM Length	1 = Off (unlimited) 2 = 2 m	Selects the maximum length of a received document that can be printed.
078~ 079	Not Used		
080	Doc Top Feed	-99 ~ +99	Adjusts the distance between the scanning sensor ON position, and the scanning start position.
081	Doc End Feed	-90 ~ +127	Adjusts the distance between the scanning sensor OFF position, and the scanning end position.
082	JAM Length	1 = 1 m 2 = 2 m	Selects the maximum length of the original that can be scanned.
083	Not Used		
084	Line As No Paper	1 = Ring (ring) 2 = Busy (keep line busy)	Selects whether to ring, or send a busy tone to the remote station when the recording paper runs out, or the unit cannot receive because of any trouble.
085	Not Used		
086	Reduction Fine	1 = Off 2 = On	Selects whether to fix with Fine Mode, or not for the Reduction transmission.

Function Parameter Table

No.	Parameter	Selections	Function
087	Darker Level	0 = Lightest Contrast ~ 15 = Darkest Contrast	Selects the contrast level. 0← →15 Lightest← →Darkest
088	Normal Level		
089	Lighter Level		
090 ~ 091	Not Used		
092	Smoothing	1 = Off 2 = On	Selects whether the smoothing function is available.
093 ~ 094	Not Used		
095	Reduction Ratio	(70-100)	Selects Print Reduction Ratio (%).
096~ 101	Not Used		
102	Original Registration	-30 ~ +30	Adjustment of original registration detection timing.
103	Trail Edge Read Timing	-9 ~ 0	Adjustment of trail edge void.
104~ 109	Not Used		
110	MAC Address		Indicates the MAC Address.
111	Not Used		
112	Insert EMAIL TXT	1 = Off 2 = On	Selects whether the Text Template (email message) is programmable, and added on all email sent in the message body above the top line of text. (Up to 40 characters Programmed in the User Parameters.) **Note:** After enabling this feature, aside from entering the text in the User Parameters, it also has to be activated in each Auto Dial Number before it will take effect. It does not work for Direct Dialed Numbers.
113~ 114	Not Used		
115	Time Zone	1 = Scroll 2 = Direct	Selects the setting method for Time Zone. **Scroll** : Allows using "Scroll Keys" to scroll through the Time Zone Table. **Direct** : Allows you to input the Time Zone directly, (*) key to be used as a switch between +/-.
116	Overwrite Warning	1 = Yes 2 = No	Selects whether the Overwrite Warning is included on the Internet FAX Result Receipt when programming the Auto Dialer via email.
117~ 121	Not Used		
122	LDAP	1 = Off 2 = On	When LDAP is used, specialized characters may be displayed as different characters.
123	One Ring Sound (USA, and Canada Only)	1 = Off 2 = On	When Function Parameter No. 45 "Ring Detect Count" is set to 1 Ring, and this parameter is enabled (On), the machine will only ring once out loud, answering on the second ring count.

Function Parameter Table			
No.	**Parameter**	**Selections**	**Function**
124 ~ 199	Not Used		

Note 1: Continuous Polling (Station Mode)

This feature allows you to store, or add documents into a polled file in memory.

To enable the Continuous Polling feature set Function Parameter No. 003 to "2:Station". The last Program Key will be assigned with the “Store 4 Poll” Key name automatically and cannot be changed.

To prepare the document(s) to be polled, simply place the document(s) on the ADF, or Platen and then press the Program Key to store, or add the document(s) into a polled file.

(**Note:** If a regular polled file is stored in memory, the Program Key for Continuous Polling will not be accepted.)

Note 2: Function Parameter No. 070 (Line Error)-Transmit condition of RTP/PIP, or RTN/PIN

Signal	**Setting**					
	1:128	**2:256**	**3:512**	**4:1024**	**5:2048**	**6:Off**
MCF/PIP	0-31	0-63	0-127	0-255	0-511	Always
RTP/PIP	32-63	64-127	128-255	256-511	512-1023	-
RTN/PIN	64-127	128-255	256-511	512-1023	1024-2047	-

Note 3: Function Parameter No. 071 (Total Error)-Transmit condition of RTP/PIP, or RTN/PIN

Signal	**Setting**			
	1:5%	**2:10%**	**3:15%**	**4:20%**
MCF/PIP	0-2	0-4	0-7	0-9
RTP/PIP	3-4	5-9	8-14	10-19
RTN/PIN	5-	10-	15-	20-

Note 4: The default setting of parameters depends on the country’s specifications, or regulations. Print the Function Parameter List to confirm the default settings.

4.2.4. Fax Service Mode 3 (Printout of Lists, Reports, and Test Results)

From this Service Mode you can print the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace, and the Toner Order Form.

4.2.4.1. Function Parameter List

A list of all Function Parameters can be printed by the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.
↓
Press the “**SET**” key to select the "**1: Function Parameter List**".
↓
Press the “**SET**” key.
↓
Press the “**STOP**” key twice to exit the service mode.

Function Parameter List (Sample)

```
************* -FUNCTION PARAMETER- ************* DATE MMM-dd-yyyy ***** TIME 12:07 ***P.01

000  Mon/Tel Dial          Monitor        050  Ring Det Mode              Normal
001  Alarm Status          Timer          051  ----------
002  Stop Comm. JRNL       On             052  Pulse Rate                 10pps
003  Continuous Poll       Off            053  ----------
004  Numeric ID Set        On             054  ----------
005  Destination Code      999            055  Busy Tone Check            On
006  ID Display            Chara          056  Dial Tone Check            Off
007  JRNL Column           Station        057  DC Loop Check              Off
008  Monitor               Off            058  Comm. JRNL + Image         On
009  DC Loop               Off            059  Conf. RCV Report           On

010  TX Level              -9dBm          060  Version ..... AcV........
011  RX Level              -43dBm         061  TX/RX/PRT/CPY 000080/000168/000003/000000
012  DTMF Level            -5dBm          062  Print Counter              Off
013  G3 RX EQL             0dB            063  ----------
014  G3 TX EQL             0dB            064  ----------
015  ---------                            065  ----------
016  ---------                            066  ----------
017  TX Start              14400bps       067  ----------
018  RX Start              14400bps       068  ----------
019  ITU-T V.34            On             069  ----------

020  ITU-T ECM             On             070  Line Error                 128
021  EP Tone               Off            071  Total Error                10
022  Sig. Interval         500ms          072  Conti. Error               Off
023  TCF Check             Normal         073  Error Detect               Rate
024  CED Freq.             2100Hz         074  RTN Receive                Discon
025  Comm. Start-Up        First          075  Coding                     JBIG
026  Non-Standard          On             076  BATCH TX:[On]              On
027  Short Protocol B      On             077  RX JAM Length              2 m
028  Short Protocol D      On             078  ----------
029  Remote Diag.          On             079  ----------

030  CED & 300bps          75ms           080  Doc Top Feed               0
031  RTC = EQL x 12        Off            081  Doc End Feed               0
032  V34 TX Start          33600bps       082  JAM Length                 2 m
033  V34 RX Start          33600bps       083  ----------
034  V34 TX SR             3429sr         084  Line As NoPaper            Ring
035  V34 RX SR             3429sr         085  ----------
036  ---------                            086  Reduction Fine             On
037  Protocol Display      Off            087  Darker Level               2
038  ---------                            088  Normal Level               8
039  Flash Time            500ms          089  Lighter Level              4

040  ---------                            090  ----------
041  Pause Time            3sec           091  ----------
042  ---------                            092  Smoothing                  On
043  Redial Interval       3min           093  ----------
044  Redial Count          5              094  ----------
045  Ring Det. Count       2              095  Reducton Ratio             100%
046  On-Hook Time          5sec           096  ----------
047  Response Wait         55sec          097  ----------
048  ---------                            098  ----------
049  ---------                            099  ----------


                                                         -PANASONIC         -

 *****      ******************* -PANASONIC         - ****** -12345678901234567890- *********
```

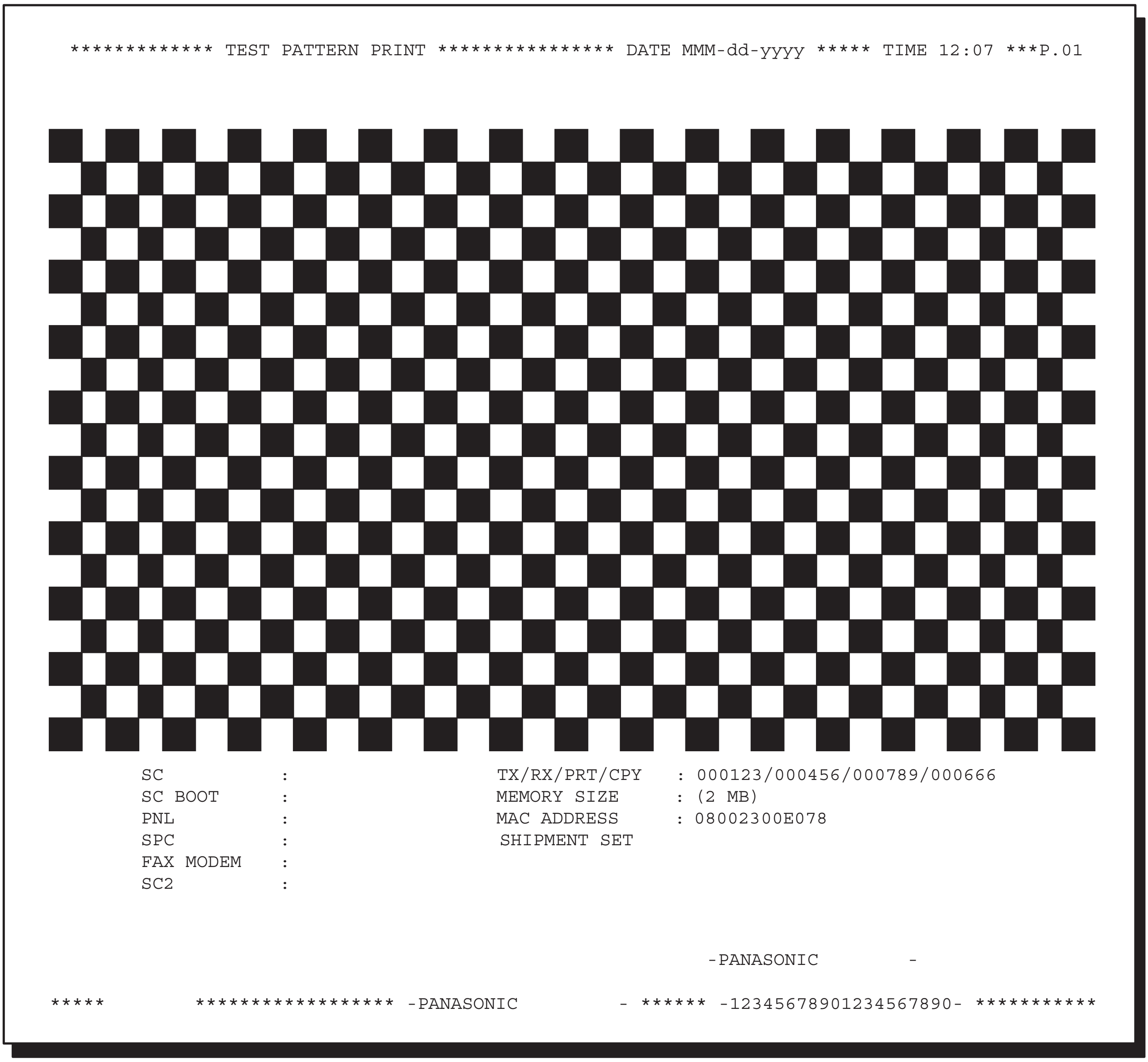
Note:

1. The contents of the Function Parameter List may vary depending on the country’s regulations.
2. “ * ” mark will be shown on the left side of number when setting was changed from default.

4.2.4.2. Page Memory Test

A test pattern prints out for checking the page memory, and printer mechanism using the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.
↓
Press the “**SET**” key to select the "**1: Function Parameter List**".
↓
Press the “**V**”, ”/\” arrow keys to select the "**3: Page Memory Test**".
↓
Press the “**SET**” key.
↓
Press the “**STOP**” key twice to exit the service mode.

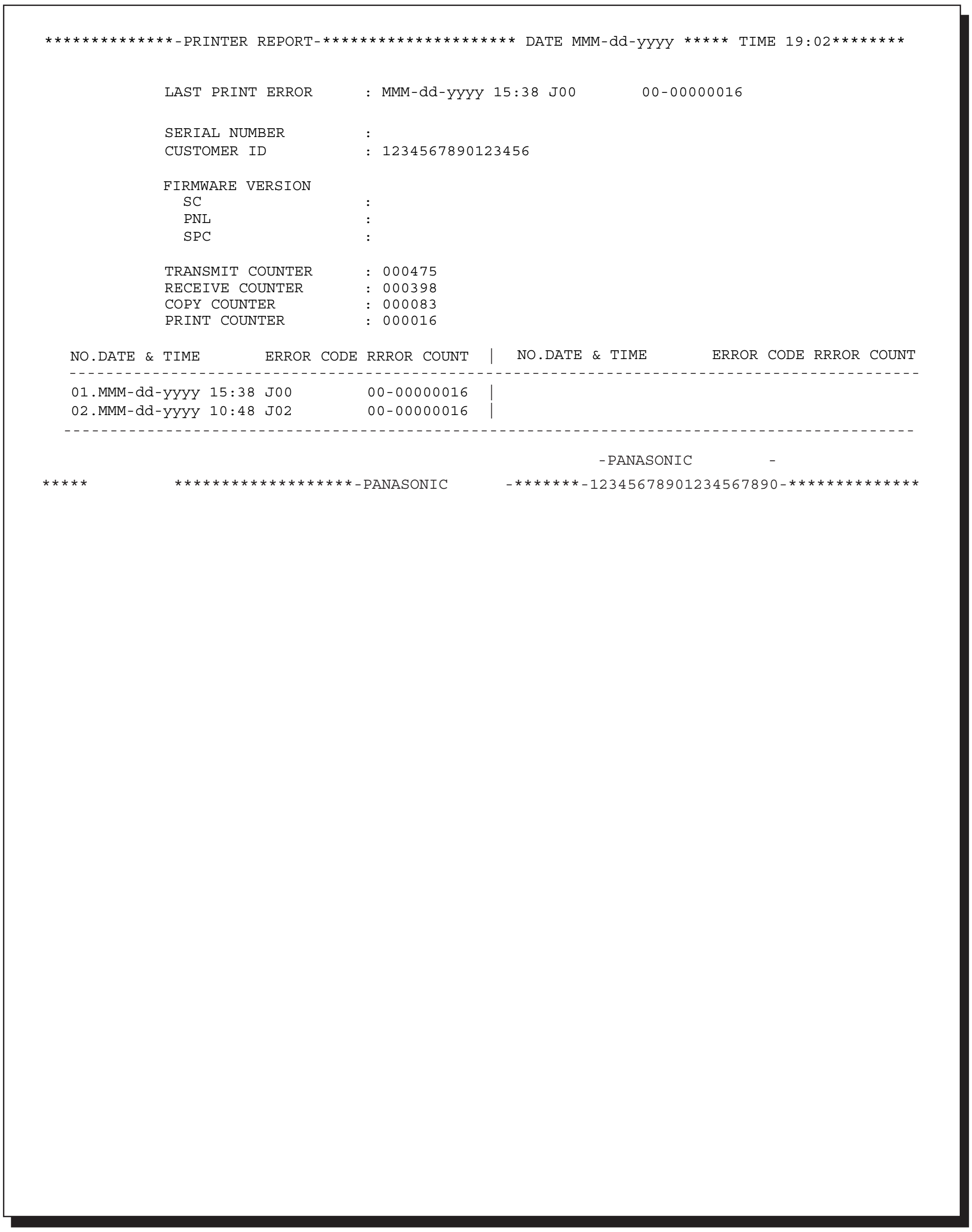


```
************* TEST PATTERN PRINT **************** DATE MMM-dd-yyyy ***** TIME 12:07 ***P.01

        SC          :                TX/RX/PRT/CPY   : 000123/000456/000789/000666
        SC BOOT     :                MEMORY SIZE     : (2 MB)
        PNL         :                MAC ADDRESS     : 08002300E078
        SPC         :                SHIPMENT SET
        FAX MODEM   :
        SC2         :

                                                        -PANASONIC        -

*****        ****************** -PANASONIC         - ****** -12345678901234567890- ***********
```

4.2.4.3. Printer Report

All printer errors are logged on the Printer Report which can be printed by the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.
↓
Press the “**SET**” key to select the "**1: Function Parameter List**".
↓
Press the “**V**”, ”/\” arrow keys to select the "**4: Printer Report**".
↓
Press the “**SET**” key.
↓
Press the “**STOP**” key twice to exit the service mode.



```
**************-PRINTER REPORT-******************** DATE MMM-dd-yyyy ***** TIME 19:02********


             LAST PRINT ERROR     : MMM-dd-yyyy 15:38 J00       00-00000016

             SERIAL NUMBER        :
             CUSTOMER ID          : 1234567890123456

             FIRMWARE VERSION
               SC                 :
               PNL                :
               SPC                :

             TRANSMIT COUNTER     : 000475
             RECEIVE COUNTER      : 000398
             COPY COUNTER         : 000083
             PRINT COUNTER        : 000016

   NO.DATE & TIME      ERROR CODE RRROR COUNT  |  NO.DATE & TIME      ERROR CODE RRROR COUNT
   ------------------------------------------------------------------------------------------
   01.MMM-dd-yyyy 15:38 J00       00-00000016  |
   02.MMM-dd-yyyy 10:48 J02       00-00000016  |
  ------------------------------------------------------------------------------------------

                                                        -PANASONIC        -
*****         *******************-PANASONIC      -*******-12345678901234567890-*************
```

4.2.4.4. All Document Files

Print the document files from the Flash Memory.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.
↓
Press the “**SET**” key to select the "**1: Function Parameter List**".
↓
Press the “**V**”, ”/\” arrow keys to select the "**5: All Document Files**".
↓
Press the “**SET**” key.
↓
Press the “**STOP**” key twice to exit the service mode.

4.2.4.5. Protocol Trace

Print a Protocol Trace Report for the previous communication.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.

↓

Press the “**SET**” key to select the "**1: Function Parameter List**".

↓

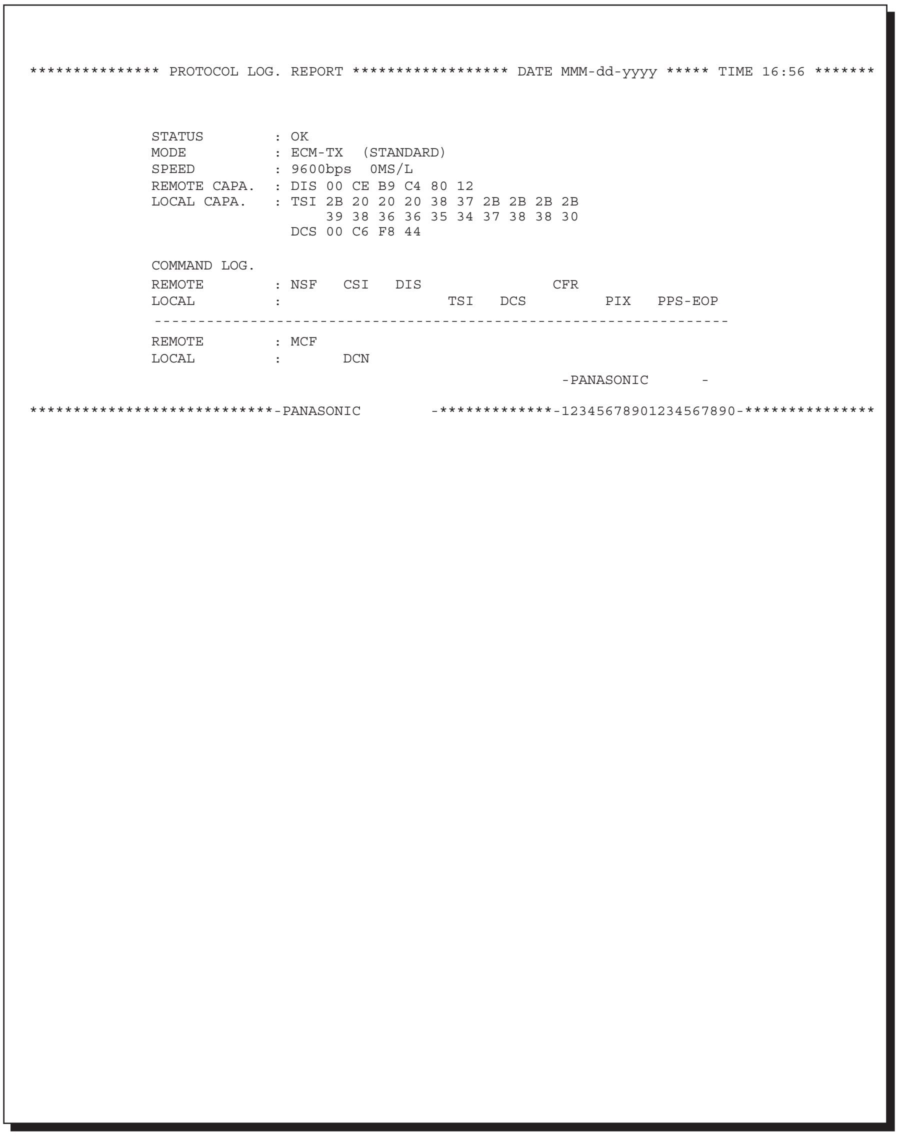
Press the “**V**”, ”/\” arrow keys select the "**6: Protocol Trace**".

↓

Press the “**SET**” key.

↓

Press the “**STOP**” key twice to exit the service mode.



```
*************** PROTOCOL LOG. REPORT ****************** DATE MMM-dd-yyyy ***** TIME 16:56 *******


              STATUS        : OK
              MODE          : ECM-TX  (STANDARD)
              SPEED         : 9600bps  0MS/L
              REMOTE CAPA.  : DIS 00 CE B9 C4 80 12
              LOCAL CAPA.   : TSI 2B 20 20 20 38 37 2B 2B 2B 2B
                                  39 38 36 36 35 34 37 38 38 30
                              DCS 00 C6 F8 44

              COMMAND LOG.
              REMOTE        : NSF   CSI   DIS               CFR
              LOCAL         :                   TSI   DCS         PIX   PPS-EOP
               ------------------------------------------------------------------
              REMOTE        : MCF
              LOCAL         :       DCN
                                                             -PANASONIC      -

****************************-PANASONIC        -*************-12345678901234567890-***************
```

4.2.4.6. Toner Order Form

The Toner Order Form can be printed out manually by the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**3: Print Report/List**" on the display.

↓

Press the “**SET**” key to select the "**1: Function Parameter List**".

↓

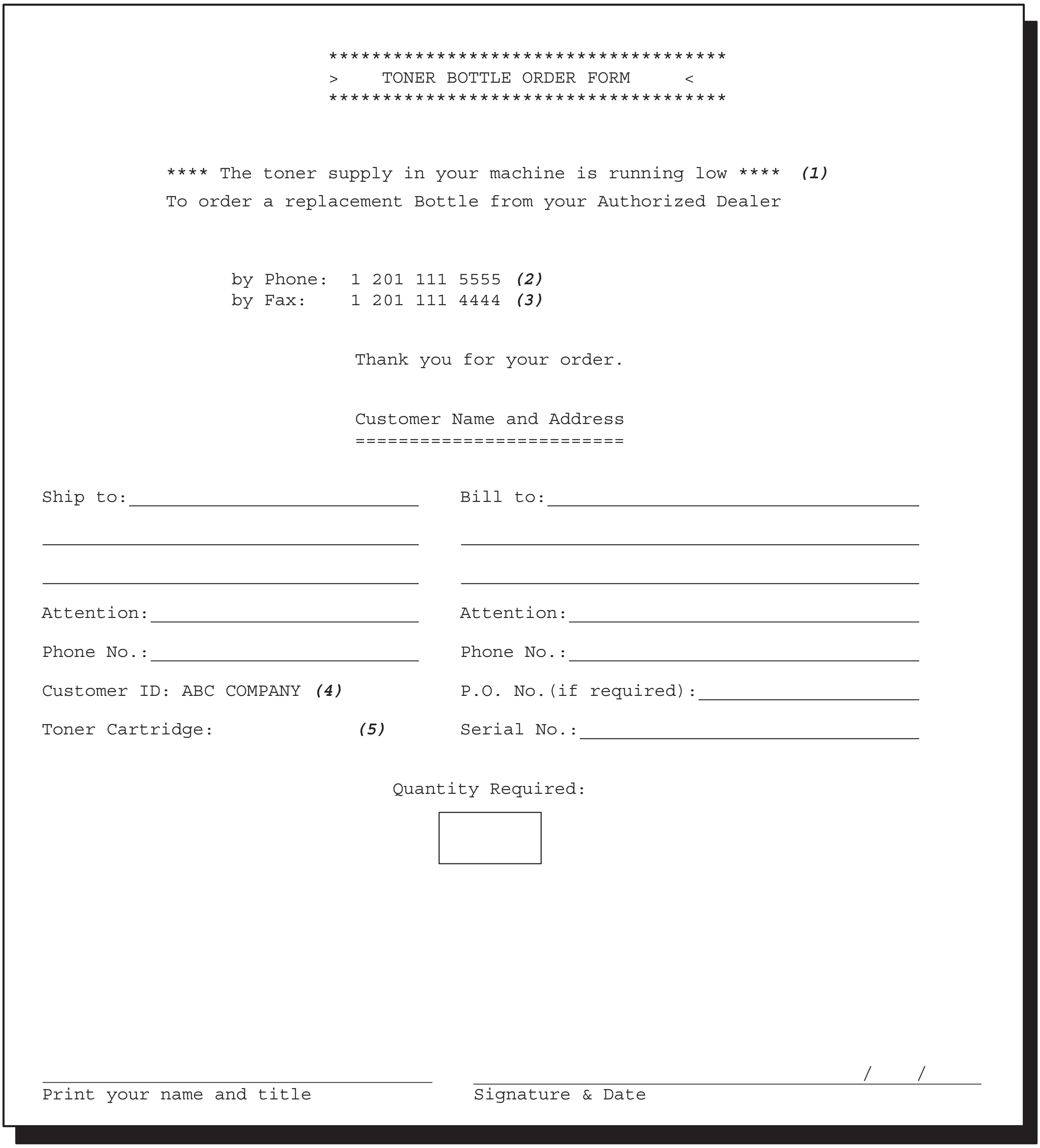
Press the “**V**”, ”/\” arrow keys to select the "**7: Toner Order Form**".

↓

Press the “**SET**” key.

↓

Press the “**STOP**” key twice to exit the service mode.



```
                    *************************************
                    >    TONER BOTTLE ORDER FORM     <
                    *************************************


     **** The toner supply in your machine is running low ****  (1)
     To order a replacement Bottle from your Authorized Dealer


           by Phone:  1 201 111 5555 (2)
           by Fax:    1 201 111 4444 (3)

                      Thank you for your order.

                      Customer Name and Address
                      =========================

Ship to:___________________________    Bill to:___________________________

___________________________________    ___________________________________

___________________________________    ___________________________________

Attention:_________________________    Attention:_________________________

Phone No.:_________________________    Phone No.:_________________________

Customer ID: ABC COMPANY (4)           P.O. No.(if required):_____________

Toner Cartridge:             (5)       Serial No.:________________________

                         Quantity Required:

___________________________________    _______________________/____/______
Print your name and title              Signature & Date
```

Explanation of Contents

(1) Low Toner Message (Fixed)	“The toner supply in your machine is running low”
(2) Toner Order Tel #	Up to 36 digits
(3) Toner Order Fax #	Up to 36 digits
(4) Customer ID	Up to 16 characters (User Identification Code)
(5) Toner Cartridge	DQ-TU10J (For DP-8020E/8020P/8016P Except for USA, Canada, and China) DQ-TUJ10K (For DP-8020E/8020P/8016P for USA, Canada, and China)

4.2.5. Fax Service Mode 4 (Modem Test)

4.2.5.1. Binary Signal

This Service Mode is used to check the binary signal output. Signals can be output to the line using the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**4: MODEM Test**" on the display.
↓
Press the “**SET**” key to select the "**1: Signal Test**".
↓
Press the “**SET**” key.
↓
Press the desired number.
↓
Press the “**SET**” key.
↓
Press the “**STOP**” key twice to exit the service mode.

Binary Signal Table

Number	Signals
1	V21 300bps
2	V27ter 2400bps
3	V27ter 4800bps
4	V29 7200bps
5	V29 9600bps
6	V17 TC7200bps
7	V17 TC9600bps
8	V17 12000bps
9	V17 14400bps

4.2.5.2. Tonal Signal

This Service Mode is used to check the tonal signal output. Signals can be output to the line using the following procedure.

Press the “**V**”, ”/\” arrow keys to select the "**4: MODEM Test**" on the display.
↓
Press the “**SET**” key to select the "**2: Tonal Test**".
↓
Press the “**SET**” key.
↓
Press the desired number, and press the "**START**" key.
↓
Press the “**STOP**” key twice to exit the service mode.

Tonal Signal Table

Number	Signals
1	462 Hz
2	1080 Hz
3	1100 Hz
4	1300 Hz
5	1650 Hz
6	1850 Hz
7	2100 Hz

4.2.5.3. DTMF Signal

This Service Mode is used to check the DTMF (Dual Tone Multi Frequency) signal output.
The DTMF signal can be generated using the following procedure.

- DTMF Single Tone

Press the “**V**”, ”/\” arrow keys to select the "**4: MODEM Test**" on the display.
↓
Press the “**SET**” key to select the "**3: DTMF Test**".
↓
Press the “**SET**” key.
↓
Press the “**V**”, ”/\” arrow keys to select the "**1. Single**".
↓
Press the desired number, and press the "**START**" key.
↓
Press the “**STOP**” key twice to exit the service mode.

- DTMF Dual Tone

Press the “**V**”, ”/\” arrow keys to select the "**4: MODEM Test**" on the display.
↓
Press the “**SET**” key to select the "**3: DTMF Test**".
↓
Press the “**SET**” key.
↓
Press the “**V**”, ”/\” arrow keys to select the "**2. Dual**".
↓
Press the desired number, and press the "**START**" key.
↓
Press the “**STOP**” key twice to exit the service mode.

DTMF Single Tone Table

Number	DTMF Signal Tones
1	697 Hz
2	770 Hz
3	852 Hz
4	941 Hz
5	1209 Hz
6	1336 Hz
7	1477 Hz
8	1633 Hz

DTMF Dual Tone Table

Number	DTMF Dual Tones
0	941 Hz + 1336 Hz
1	697 Hz + 1209 Hz
2	697 Hz + 1336 Hz
3	697 Hz + 1477 Hz
4	770 Hz + 1209 Hz
5	770 Hz + 1336 Hz
6	770 Hz + 1477 Hz
7	852 Hz + 1209 Hz
8	852 Hz + 1336 Hz
9	852 Hz + 1477 Hz
*	941 Hz + 1209 Hz
#	941 Hz + 1477 Hz

4.2.5.4. Binary Signal (V.34)

This Service Mode is used to check the binary signal output. Signals can be output to the line using the following procedure. (V.34)

Press the “**V**”, ”/\” arrow keys to select the "**4: MODEM Test**" on the display.
↓
Press the “**SET**” key to select the "**4: V34 MODEM**".
↓
Press the “**SET**” key.
↓
Press the desired number, and press the "**START**" key.
↓
Press the “**STOP**” key twice to exit the service mode.

Binary Signal Table

Number	Signals	Number	Signals	Number	Signals
01	V34 2400 sr 2400 bps	22	V34 3000 sr 9600 bps	43	V34 3429 sr 4800 bps
02	V34 2400 sr 4800 bps	23	V34 3000 sr 12000 bps	44	V34 3429 sr 7200 bps
03	V34 2400 sr 7200 bps	24	V34 3000 sr 14400 bps	45	V34 3429 sr 9600 bps
04	V34 2400 sr 9600 bps	25	V34 3000 sr 16800 bps	46	V34 3429 sr 12000 bps
05	V34 2400 sr 12000 bps	26	V34 3000 sr 19200 bps	47	V34 3000 sr 19200 bps
06	V34 2400 sr 14400 bps	27	V34 3000 sr 21600 bps	48	V34 3429 sr 16800 bps
07	V34 2400 sr 16800 bps	28	V34 3000 sr 24000 bps	49	V34 3429 sr 19200 bps
08	V34 2400 sr 19200 bps	29	V34 3000 sr 26400 bps	50	V34 3429 sr 21600 bps
09	V34 2400 sr 21600 bps	30	V34 3000 sr 28800 bps	51	V34 3429 sr 24000 bps
10	V34 2800 sr 4800 bps	31	V34 3200 sr 4800 bps	52	V34 3429 sr 26400 bps
11	V34 2800 sr 7200 bps	32	V34 3200 sr 7200 bps	53	V34 3429 sr 28800 bps
12	V34 2800 sr 9600 bps	33	V34 3200 sr 9600 bps	54	V34 3429 sr 31200 bps
13	V34 2800 sr 12000 bps	34	V34 3200 sr 12000 bps	55	V34 3429 sr 33600 bps
14	V34 2800 sr 14400 bps	35	V34 3200 sr 14400 bps	56	ANSam
15	V34 2800 sr 16800 bps	36	V34 3200 sr 16800 bps	57	CM
16	V34 2800 sr 19200 bps	37	V34 3200 sr 19200 bps	58	JM
17	V34 2800 sr 21600 bps	38	V34 3200 sr 21600 bps	59	INFO0c & TONEB
18	V34 2800 sr 24000 bps	39	V34 3200 sr 24000 bps	60	INFO0c & TONEA
19	V34 2800 sr 26400 bps	40	V34 3200 sr 26400 bps	61	PPh & AC & ALT
20	V34 3000 sr 4800 bps	41	V34 3200 sr 28800 bps		
21	V34 3000 sr 7200 bps	42	V34 3200 sr 31200 bps		

4.2.6. Fax Service Mode 6 (RAM Initialization)

Initializes RAM, and restores the Function Parameters to their default values.

Note:
This operation should be performed when the unit is first installed.

Press the “**V**”, ”/\” arrow keys to select the "**6: RAM initialize**" on the display.
↓
Press the “**SET**” key to select the desired Mode number.
↓
Press the "**SET**" key to initialize RAM.
↓
Press the “**STOP**” key twice to exit the service mode.

RAM Initialization Table

No.	Initialize Mode	Description
01	PARAMETER INITIALIZE	Restores the Fax, and Function Parameters to default values. **Note:** Turn the Power Switch to the **OFF**, and back to the **ON** position to enable the parameter settings.
02	JOURNAL CLEAR	Clears the Journal contents.
03	AUTO DIAL CLEAR	Clears the One-touch, ABBR Numbers, and Phone Books.
04	PROGRAM DIAL CLEAR	Clears the Program keys.
05	LOGO/ID/PSWD CLEAR	Clears the Logo, ID, Polling Password.
06	LBP ERROR LOG CLEAR	Clears the Printer Error Log.
07	SHIPMENT SET	Deletes all setting information, except parameter number 80, and 81, then set default values.
08	FLASH MEMORY CLEAR	Deletes all information in the Flash Memory.
09	ALL JOB CLEAR	Clears all Jobs stored in Flash Memory.

4.2.7. FAX Service Mode 8 (Check & Call)

4.2.7.1. Overview

This feature enables the Authorized Servicing Dealers to manage, and improve the machine maintenance to their customers by alerting them of equipment problems. It also can be used as a Supply Sales Tool by alerting the Dealer that the unit is running Low on Toner. The function overview is as follows:

1. The machine's printer error information is stored in the Printer Report.
2. The printer report can be manually printed when required.
3. When printer errors occurs, the unit can automatically transmit the Service Alert Report to the pre-registered telephone number, or email address.
4. When the unit detects Low Toner, or PM counter reached the maintenance timing, it can automatically transmit the Maintenance Alert Report to the pre-registered telephone number, or email address.

Press the "**V**", "/\" arrow keys to select the "**8: Check & Call**" on the display.

↓

Press the "**SET**" key to select the desired code number.
(i.e. 01 Service Alert Fax #, input the telephone No., or for an email address, press the "**FAX/EMAIL**" Mode key, and input the email address.)

↓

Press the "**SET**" key.

↓

Press the "**STOP**" key twice to exit the service mode.

4.2.7.2. Printer Reports

- **Conditions under which a report can be printed, or transmitted**

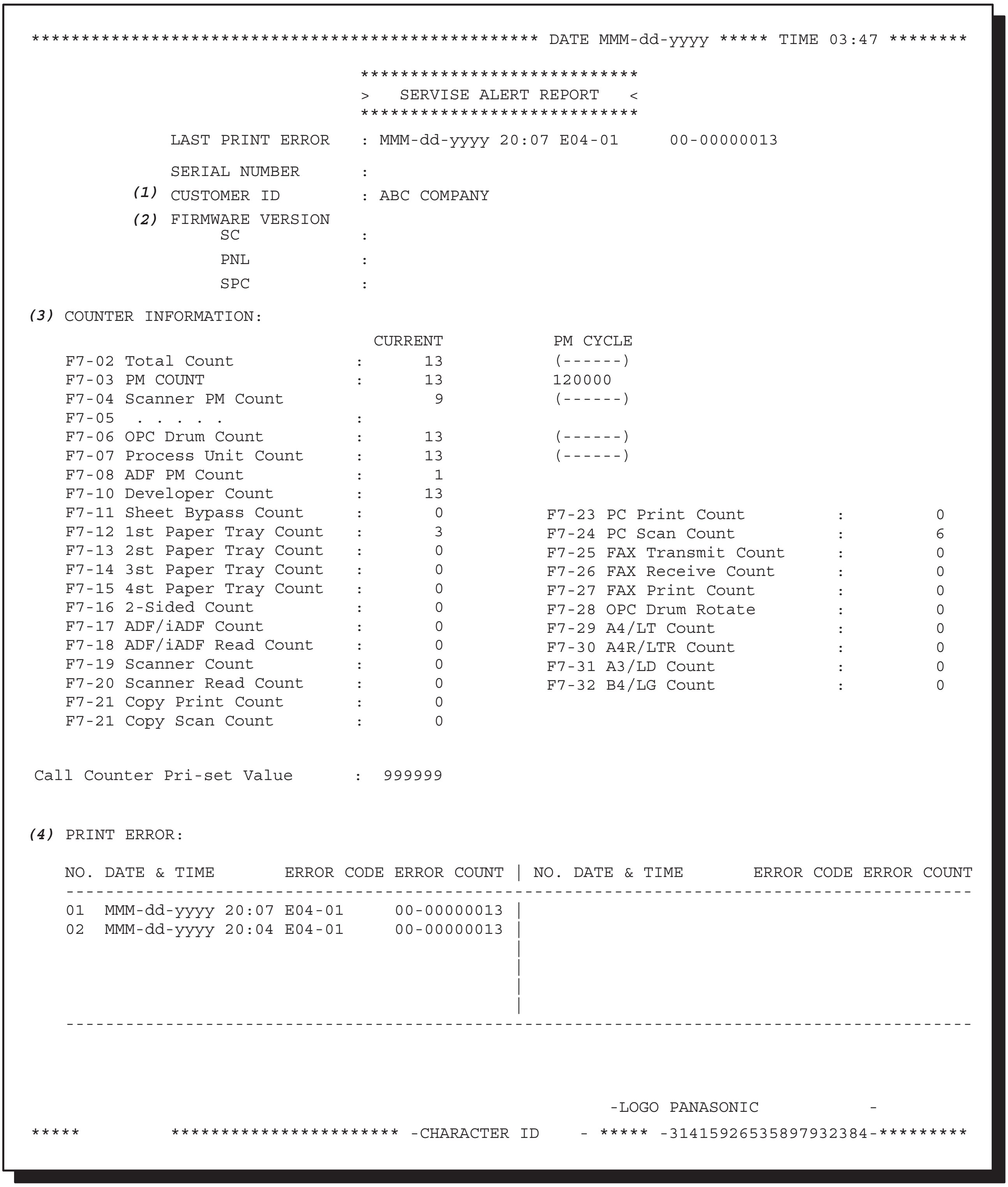
1. Manual print
   The Printer Report can be printed by Service Mode 3. (See Sect. 4.2.4.3. of the Service Manual)
2. Automatic transmission/printout
   a. Service Alert Report
      When the unit detects an Emergency Printer Error, the unit will immediately transmit the Service Alert Report to the pre-registered telephone number, or email address. However, the unit will not transmit the Service Alert Report if it finds the same error within the same date in the error log.
   b. Maintenance Alert Report
      When the unit detects Low Toner, the unit can automatically transmit the Maintenance Alert Report to the pre-registered telephone number, or email address. Refer to the Error Code Table.
   c. Toner Order Form
      When the unit detects Low Toner, the unit can automatically print the Toner Order Form with the pre-registered order information.
   d. Call Counter Report
      When the printer counter reaches the pre-set number, the unit can automatically transmit the Call Counter Report to the pre-registered telephone number, or email address.

Note:
The Service, and Maintenance Alert Reports are managed in the same manner as the normal memory transmission (Retry, Incomplete, File List, Display while it is transmitting, Journal).

Error Code	Log	Tx Report	Remarks
Ex-xx	O	S	Refer to the Mechanical Error Code (E Code) Table. (Sect. 3.6.3.)
E13			Out of Toner.
Jxx			Refer to the Jam Error Code (J Code) Table. (Sect. 3.6.2.)
Uxx			Refer to the User Error Code (U Code) Table. (Sect. 3.6.1.)
U13		M	Low Toner.

Note:
TX (Transmission) Report: S = Service Alert Report, M = Maintenance Alert Report

4.2.7.3. SERVICE ALERT REPORT FORMAT

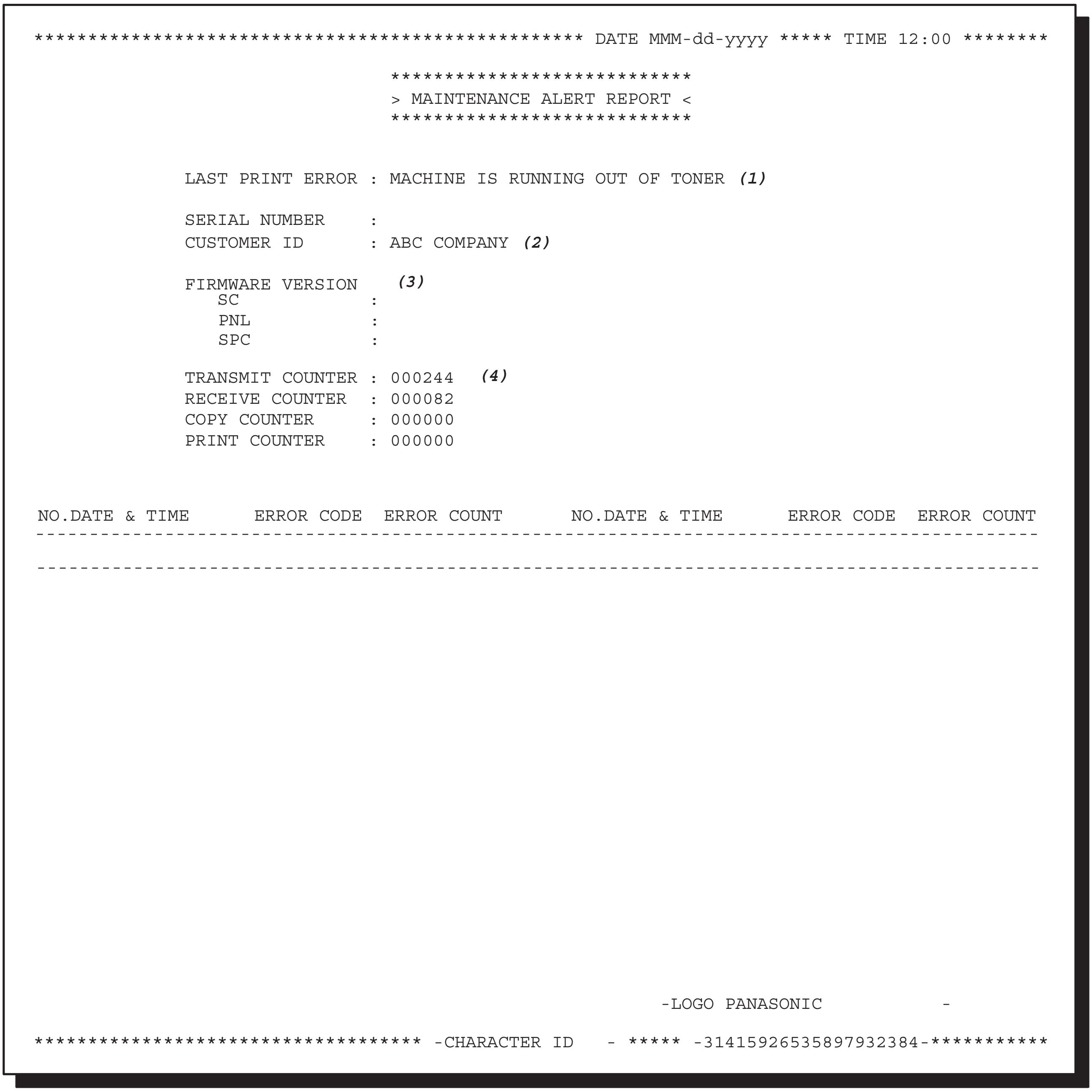


```
*************************************************** DATE MMM-dd-yyyy ***** TIME 03:47 ********

                                  ****************************
                                  >   SERVISE ALERT REPORT   <
                                  ****************************
              LAST PRINT ERROR    : MMM-dd-yyyy 20:07 E04-01     00-00000013

              SERIAL NUMBER       :
          (1) CUSTOMER ID         : ABC COMPANY
          (2) FIRMWARE VERSION
                   SC             :
                   PNL            :
                   SPC            :

(3) COUNTER INFORMATION:
                                   CURRENT          PM CYCLE
    F7-02 Total Count             :      13          (------)
    F7-03 PM COUNT                :      13          120000
    F7-04 Scanner PM Count               9           (------)
    F7-05  . . . . .              :
    F7-06 OPC Drum Count          :      13          (------)
    F7-07 Process Unit Count      :      13          (------)
    F7-08 ADF PM Count            :       1
    F7-10 Developer Count         :      13
    F7-11 Sheet Bypass Count      :       0         F7-23 PC Print Count          :         0
    F7-12 1st Paper Tray Count    :       3         F7-24 PC Scan Count           :         6
    F7-13 2st Paper Tray Count    :       0         F7-25 FAX Transmit Count      :         0
    F7-14 3st Paper Tray Count    :       0         F7-26 FAX Receive Count       :         0
    F7-15 4st Paper Tray Count    :       0         F7-27 FAX Print Count         :         0
    F7-16 2-Sided Count           :       0         F7-28 OPC Drum Rotate         :         0
    F7-17 ADF/iADF Count          :       0         F7-29 A4/LT Count             :         0
    F7-18 ADF/iADF Read Count     :       0         F7-30 A4R/LTR Count           :         0
    F7-19 Scanner Count           :       0         F7-31 A3/LD Count             :         0
    F7-20 Scanner Read Count      :       0         F7-32 B4/LG Count             :         0
    F7-21 Copy Print Count        :       0
    F7-21 Copy Scan Count         :       0


Call Counter Pri-set Value        :  999999


(4) PRINT ERROR:

    NO. DATE & TIME       ERROR CODE ERROR COUNT | NO. DATE & TIME       ERROR CODE ERROR COUNT
    -------------------------------------------------------------------------------------------
    01  MMM-dd-yyyy 20:07 E04-01     00-00000013 |
    02  MMM-dd-yyyy 20:04 E04-01     00-00000013 |
                                                 |
                                                 |
                                                 |
                                                 |
    -------------------------------------------------------------------------------------------



                                                            -LOGO PANASONIC           -
*****         *********************** -CHARACTER ID    - ***** -31415926535897932384-*********
```

Explanation of Contents

(1) Customer ID	
(2) Firmware Version	
(3) Counter Information	
(4) Print Error	Last 30 records (Latest on top)

4.2.7.4. MAINTENANCE ALERT REPORT FORMAT

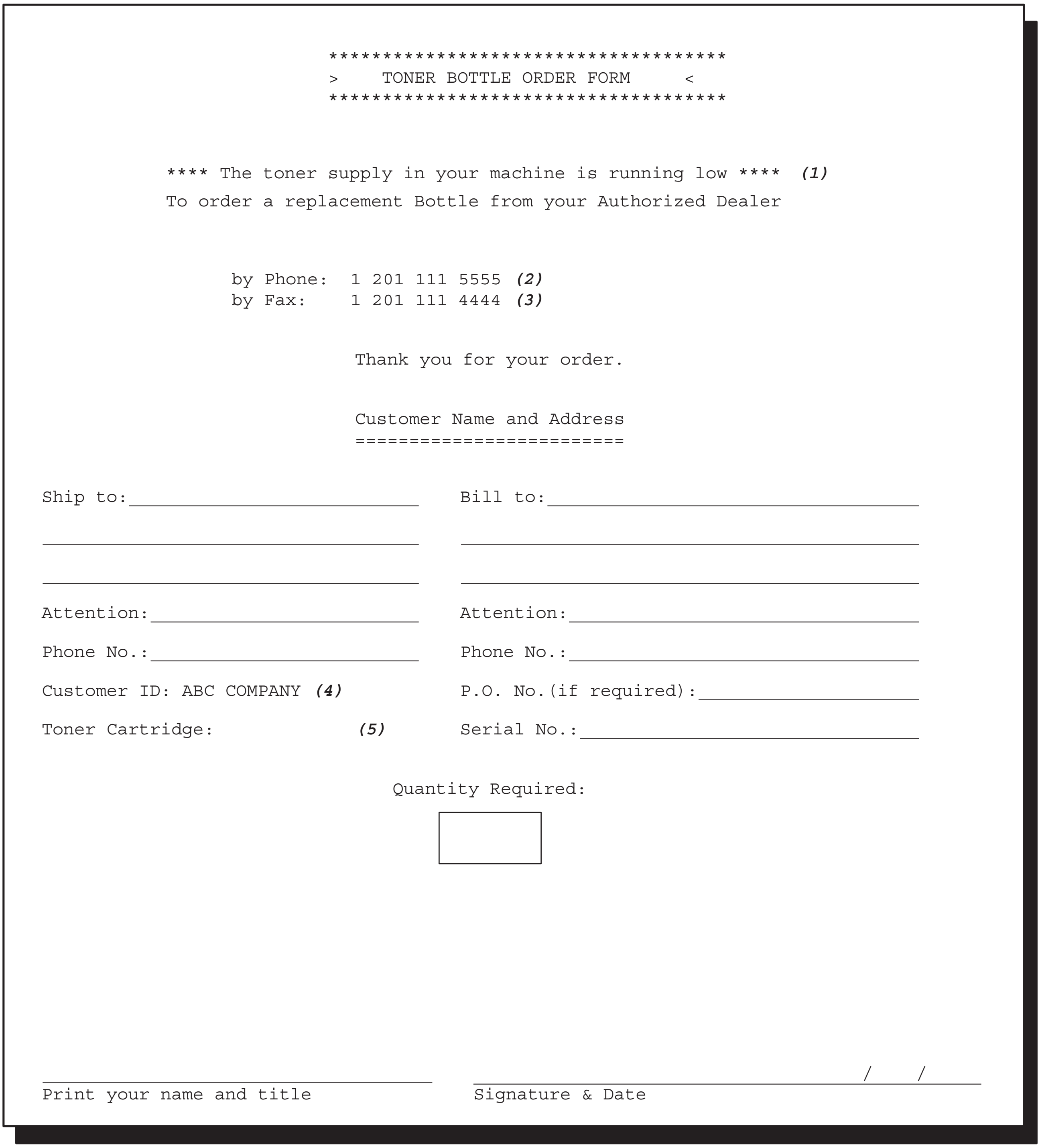


```
*************************************************** DATE MMM-dd-yyyy ***** TIME 12:00 ********

                                 ****************************
                                 > MAINTENANCE ALERT REPORT <
                                 ****************************


              LAST PRINT ERROR : MACHINE IS RUNNING OUT OF TONER (1)

              SERIAL NUMBER    :
              CUSTOMER ID      : ABC COMPANY (2)

              FIRMWARE VERSION  (3)
                 SC            :
                 PNL           :
                 SPC           :

              TRANSMIT COUNTER : 000244  (4)
              RECEIVE COUNTER  : 000082
              COPY COUNTER     : 000000
              PRINT COUNTER    : 000000


NO.DATE & TIME      ERROR CODE  ERROR COUNT      NO.DATE & TIME      ERROR CODE  ERROR COUNT
---------------------------------------------------------------------------------------------

---------------------------------------------------------------------------------------------



                                                          -LOGO PANASONIC          -

************************************ -CHARACTER ID   - ***** -31415926535897932384-***********
```

Explanation of Contents

(1) Low Toner Message (Fixed)	"MACHINE IS RUNNING OUT OF TONER"
(2) Customer ID	Up to 16 characters (User Identification Code)
(3) Firmware Version	
(4) Transmission / Reception / Copy / Print Counters	

4.2.7.5. Toner Order Form

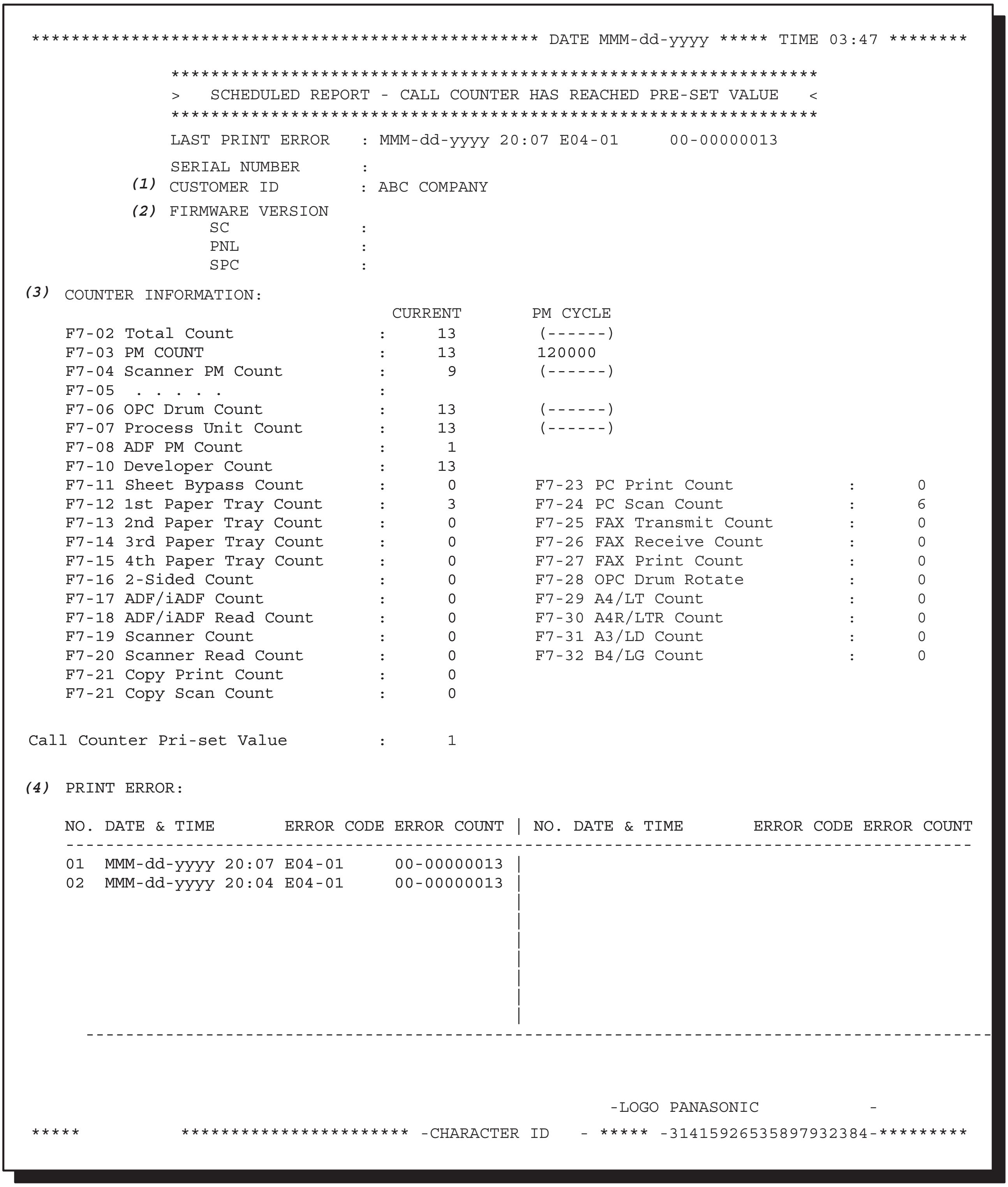


```
                              ************************************
                              >    TONER BOTTLE ORDER FORM     <
                              ************************************


               **** The toner supply in your machine is running low ****  (1)
               To order a replacement Bottle from your Authorized Dealer


                     by Phone:  1 201 111 5555 (2)
                     by Fax:    1 201 111 4444 (3)

                                Thank you for your order.

                                Customer Name and Address
                                =========================

   Ship to:___________________________    Bill to:__________________________________

   ___________________________________    __________________________________________

   ___________________________________    __________________________________________

   Attention:_________________________    Attention:________________________________

   Phone No.:_________________________    Phone No.:________________________________

   Customer ID: ABC COMPANY (4)           P.O. No.(if required):____________________

   Toner Cartridge:              (5)      Serial No.:_______________________________

                                    Quantity Required:
                                        ┌─────────┐
                                        │         │
                                        └─────────┘




   ____________________________________   ______________________________/_____/_____
   Print your name and title              Signature & Date
```

Explanation of Contents

(1) Low Toner Message (Fixed)	“The toner supply in your machine is running low”
(2) Toner Order Tel #	Up to 36 digits
(3) Toner Order Fax #	Up to 36 digits
(4) Customer ID	Up to 16 characters (User Identification Code)
(5) Toner Cartridge	DQ-TU10J (For DP-8020E/8020P/8016P Except for USA, Canada, and China) DQ-TUJ10K (For DP-8020E/8020P/8016P for USA, Canada, and China)

4.2.7.6. CALL COUNTER REPORT



```
*************************************************** DATE MMM-dd-yyyy ***** TIME 03:47 ********

              *****************************************************************
              >   SCHEDULED REPORT - CALL COUNTER HAS REACHED PRE-SET VALUE   <
              *****************************************************************
              LAST PRINT ERROR    : MMM-dd-yyyy 20:07 E04-01     00-00000013

              SERIAL NUMBER       :
         (1)  CUSTOMER ID         : ABC COMPANY
         (2)  FIRMWARE VERSION
                  SC              :
                  PNL             :
                  SPC             :
(3)  COUNTER INFORMATION:
                                     CURRENT       PM CYCLE
    F7-02 Total Count              :     13        (------)
    F7-03 PM COUNT                 :     13        120000
    F7-04 Scanner PM Count         :      9        (------)
    F7-05  . . . . .               :
    F7-06 OPC Drum Count           :     13        (------)
    F7-07 Process Unit Count       :     13        (------)
    F7-08 ADF PM Count             :      1
    F7-10 Developer Count          :     13
    F7-11 Sheet Bypass Count       :      0        F7-23 PC Print Count            :      0
    F7-12 1st Paper Tray Count     :      3        F7-24 PC Scan Count             :      6
    F7-13 2nd Paper Tray Count     :      0        F7-25 FAX Transmit Count        :      0
    F7-14 3rd Paper Tray Count     :      0        F7-26 FAX Receive Count         :      0
    F7-15 4th Paper Tray Count     :      0        F7-27 FAX Print Count           :      0
    F7-16 2-Sided Count            :      0        F7-28 OPC Drum Rotate           :      0
    F7-17 ADF/iADF Count           :      0        F7-29 A4/LT Count               :      0
    F7-18 ADF/iADF Read Count      :      0        F7-30 A4R/LTR Count             :      0
    F7-19 Scanner Count            :      0        F7-31 A3/LD Count               :      0
    F7-20 Scanner Read Count       :      0        F7-32 B4/LG Count               :      0
    F7-21 Copy Print Count         :      0
    F7-21 Copy Scan Count          :      0


Call Counter Pri-set Value         :      1

(4)  PRINT ERROR:

    NO. DATE & TIME       ERROR CODE ERROR COUNT | NO. DATE & TIME       ERROR CODE ERROR COUNT
    ------------------------------------------------------------------------------------------
    01  MMM-dd-yyyy 20:07 E04-01     00-00000013 |
    02  MMM-dd-yyyy 20:04 E04-01     00-00000013 |
                                                 |
                                                 |
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      ------------------------------------------------------------------------------------------



                                                                -LOGO PANASONIC           -
*****          ********************** -CHARACTER ID   - ***** -31415926535897932384-*********
```

Explanation of Contents

(1) Customer ID

(2) Firmware Version

(3) Counter Information

(4) Call Counter Pre-Set Value

4.2.8. Service Mode 9 (System Maintenance)

4.2.8.1. Overview

This Service Mode is used to maintain the machine. Use the following procedure for System Maintenance.

Press the “**V**”, ”/\” arrow keys to select the "**9: System Maintenance**" on the display.
↓
Press the “**SET**” key to select the "**1: Send RCV’D File**". The display changes to the Fax Mode.
↓
Select the desired Fax number.
↓
Press "**START**" to send the Fax.
After the transmission, the machine returns to the Stand-by Mode.

Note:
If there is NO File in the machine, this operation will not function.
Press the “STOP” key twice to exit the service mode.

System Maintenance Table

No.	Maintenance Mode	Description
01	Send RCV'D File	Transfers documents from memory to another fax machine during a fatal printer error.

5 Exploded View & Parts List

Note:

1. Panasonic Digital Document Company and other Panasonic Sales Companies reserve the right to change any information enclosed herein without prior notification.
   (This includes, but is not limited to, parts pricing, availability, and text)
2. Electrical parts supplied may include previously used components.
3. ⚠ **Important Safety Notice**
   Components identified by a ⚠ mark, have special characteristics important for safety.
   When replacing any of these components, use only manufacturer’s specified parts.
4. In New Parts column, "N" indicates part is used only in DP-8020E/8020P/8016P models, "C" indicates part is used in previous models.
5. In Remarks column, "PM" indicates “Preventive Maintenance Part".
6. In Remarks column, "RTL" indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
7. This “Unit" which includes other itemized parts is provided as “Limited Availability" for your convenience, and will only be offered for up to 3 years after the production of the unit ceases. However, the individual contents of the assembly will be available for the standard period.
8. For Screw identification and Part Number, please refer to the last section of this chapter.
9. **Important Notice**
   (Especially in those countries belonging to the European Union):
   This product is fully compliant with the national laws transposed from the EU Directive on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment, effective 1st July 2006 in the EU countries.
   In order for the product to comply with the RoHS Directive, the six particular substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers) have been either totally eliminated or limited to the concentration level below maximum allowed.
   Consequently spare parts have been changed to RoHS-compliant parts where applicable.
   To ensure compliance with the spare parts application of the RoHS legislation, please make sure to follow the details provided in this manual when ordering spare parts and carrying out repairs.

5.1. Destination Codes

<For DP-8020E / 8020P* / 8016P>

Code	Destination	Code	Destination
PA	Australia; New Zealand	PP	Czech; Slovakia; Poland; Hungary
PB	England; Singapore; Malaysia; Hong Kong	PS	Turkey
		PT	Taiwan
PF	France	PU	USA; Canada; Puerto Rico; Mexico; Panama
PK	China	PUG	GSA
PM	Germany; Austria; Italy; Spain	PY	Saudi Arabia

5.1.1. Destination Codes for Fax Option

<For DP-8020E / 8020P* / 8016P>

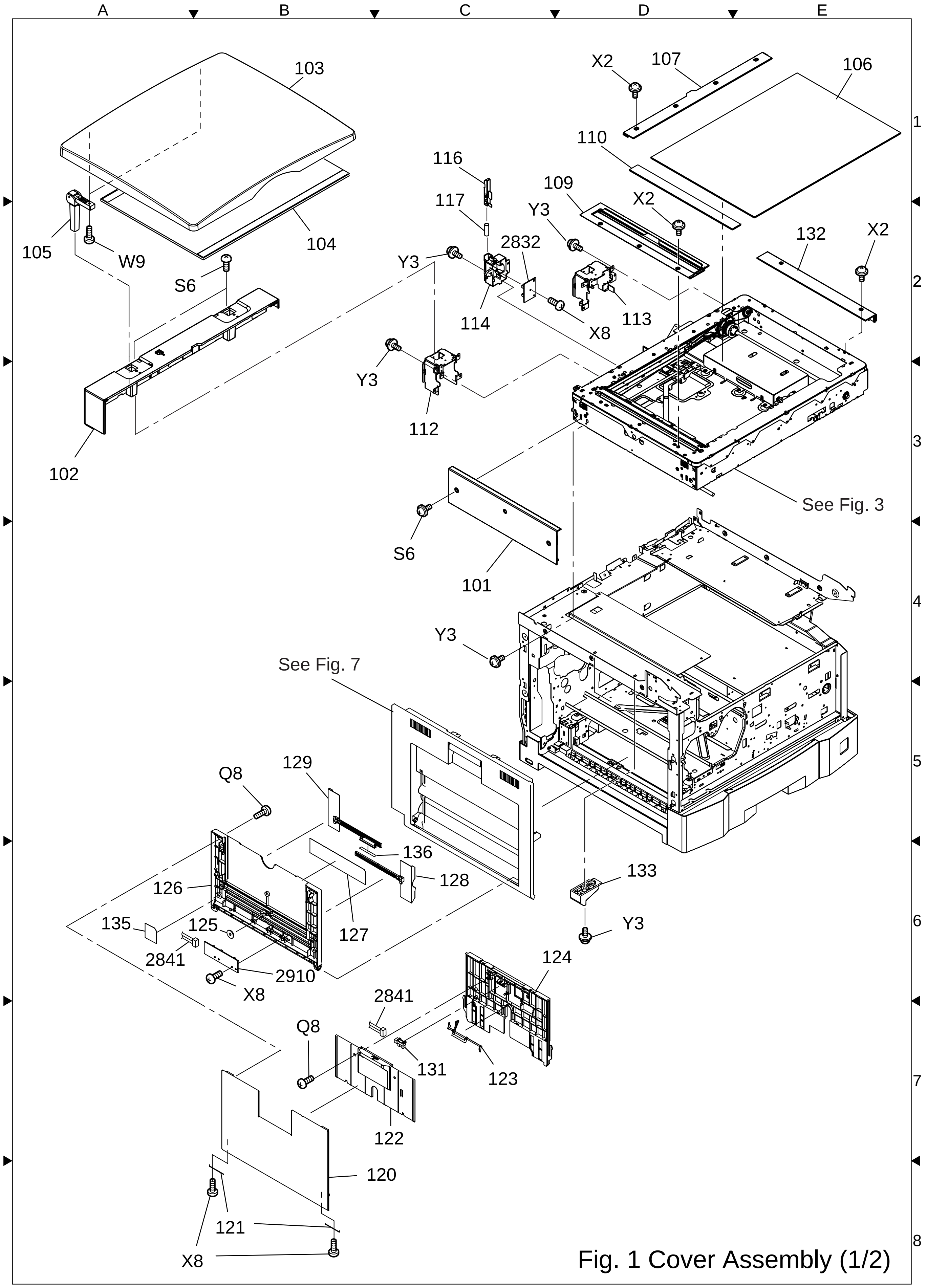
Code	Destination	Code	Destination
AAR	Austria	EER	Italy
ABR	England	ENR	Norway; Sweden
AER	Taiwan	YAR	Panama; (220 VAC Power Supply)
AGR	Germany	YCR	Slovakia
AHR	Netherlands	YGR	Greece
AJR	Spain	YMR	Malaysia
AKR	Hong Kong SAR, PRC	YPR	Czech; Poland; Hungary
ALR	Australia	YRR	Russia; Ukraine
AMR	Switzerland	YSR	Saudi Arabia
APR	Portugal	YTR	Thailand
ARR	Belgium	YVR	China
ATR	Turkey	YWR	South Africa
AUR	USA; Canada; Puerto Rico	YXR	Singapore
AVR	France	YYR	Mexico; Panama; (120 VAC Power Supply)
AWR	New Zealand		

Note:

1. DP-8020P is not available for USA and Canada.
2. Model availability may differ as per destination. Please ask your sales company for details.

5.2. Cover Assembly

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	101	DZMA004441	Cover, Left Scanner	C		All
⚠	102	DZMA004443	Cover, Rear Scanner	C		All
	103	DZMA002394	Cover, Platen	C		All
	104	PJHEC0124Z	Pad, Scanning	C		All
	105	DZMH000013	Hinge, Platen	C		All
	106	DZTE000025	Glass, Platen (L)	C		All
	107	DZJE001189	Plate, Rear Document	C		PU, PUG
		DZJE001191				PK, PT
		DZJE001188				Other
	109	DZHP010632	Assembly, Document Plate	C		PU, PUG
		DZHP010631				PK, PT
		DZHP010630				Other
	110	DZTE000052	Glass, Scanning (S)	C		All
	112	DZJA001385	Bracket, Left Hinge	C		All
	113	DZJA001386	Bracket, Right Hinge	C		All
	114	DZJM001318	Guide, OPS	C		All
	116	DZJM001403	Actuator, OPS	C		All
	117	DZKN000266	Spring, Actuator	C		All
	120	DZML000489	Cover, Bypass Tray	C		All
	121	DZKR000038	Spring, Tray Hold Up	C		All
	122	DZML000491	Tray, Sub Bypass 2	C		All
	123	DZKL000087	Actuator, Paper Tray	C		All
	124	DZML000490	Tray, Sub Bypass	C		All
	125	DZLF000208	Gear, Guide	C		All
	126	DZML000488	Tray, Bypass	C		All
	127	DZNK005316	Label, Bypass Tray	C		PU, PUG
		DZNK005266				Other
		PJGFC0033Z				PK, PT
	128	DZJF000658	Guide, Rear Set	C		All
	129	DZJF000657	Guide, Front Set	C		All
	131	DZAL000211	Sensor, Photo	C		All
	132	DZMA004445	Cover, Right Scanner	C		All
	133	DZJF000662	Lever, Guide	C		All
	135	DZNE000129	Sheet, Harness	C		All
	136	PJRCC0005Z	Label 3, Sensor	C		All
	2832	DZEC102304R	PC Board, SNS	C		All
	2841	DZFP001590	Harness, MPS	C		All
	2910	DZEC102917R	PC Board, SSN	C		Except PK, PT
		DZEC103157R				PK, PT
	Q8	XTB3+8GFN	Screw	C		All
	S6	DZPA000086	Screw	C		All
	W9	XTB3+12JFJ	Screw	C		All
	X2	DZPA000089	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All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X8
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See Fig. 3
S6
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Y3
See Fig. 7
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Q8
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X8
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Y3
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Q8
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X8

Fig. 1 Cover Assembly (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	201	DZMA004817	Cover, Front Door	N	For DP-8020E/8020P*	All
		DZMA004818			For DP-8016P	
⚠	202	DZMA004453	Cover, Exit	C		All
	203	DZMA004440	Cover, Connector	C		All
	204	DZNK005270	Label, Toner Bottle Exchange	C		All
	205	DZJB000447	Angle, Door Cover	C		All
	206	DZKQ000119	Spring, DC	C		All
	207	DZJA000187	Bracket, Magnet	C		All
	208	DZGD000001	Magnet	C		All
⚠	209	DZNK005449	Label, Laser Caution	C		PK, PT
		DZNK005268				PU,PUG,Other
	210	DZNK005269	Label, Toner Bottle	C		All
⚠	211	DZMA004447	Cover 1, Front	C		All
	212	PJGFC1214Z	Label, EPA	C		All
	213	DZJB000186	Plate, Magnet	C		All
	214	DZMG000038	Latch, Waste Toner Box	C		All
⚠	215	DZMA004450	Cover, Left Front	C		All
	216	DZMA004449	Cover, Right	C		All
	217	DZMA004500	Cover, F Card	C		All
	218	DZMA004451	Cover, Rear Side	C		All
	219	DZMA004452	Cover, Inner	C		All
	220	DZMA004454	Cover, Rear	C		All
	223	FFPTE2719	Label, F-ROM	C	For DP-8020E/8020P*	All
⚠	224	DZNK005283	Label, Heater Main	C		PU,PUG,Other
		PJGTC0053Z				PK
⚠	225	DZNK005284	Label, Switch	C		All
	226	DZJJ000017	Wire, Front Door	C		All
⚠	227	K0AHLE000003	Switch, Interlock	C		All
	228	DZJB000425	Bracket, Interlock SW	C		All
	229	DZKK000120	Lever, Interlock	C		All
	232	DZPA000097	Screw	C		All
	233	DZUJ000023	Packing, Inner Cover	C		All
	234	DZNK004580	Label, Energy	C		PB
⚠	235	DZNK002411	Label, Ground Warning	C		PB, PS
⚠	236	DZNK003248	Label, Class A	C		PK
	237	PJUIC0218Z	Base, Key Counter	C		All
	238	PJUIC0219Z	Cover, Key Counter	C		All
	239	PJUIC0221Z	Cover, Key Counter Front	C		All
	938	DZPA000092	Screw	C		All
	952	PJHSC0025Z	Gasket	C		PA, PB, PF, PM, PP, PS, PY
	Q8	XTB3+8GFN	Screw	C		All
	S6	DZPA000086	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y1	XTW3+8PFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All
	Y11	XSB4+10FJ	Screw	C		All

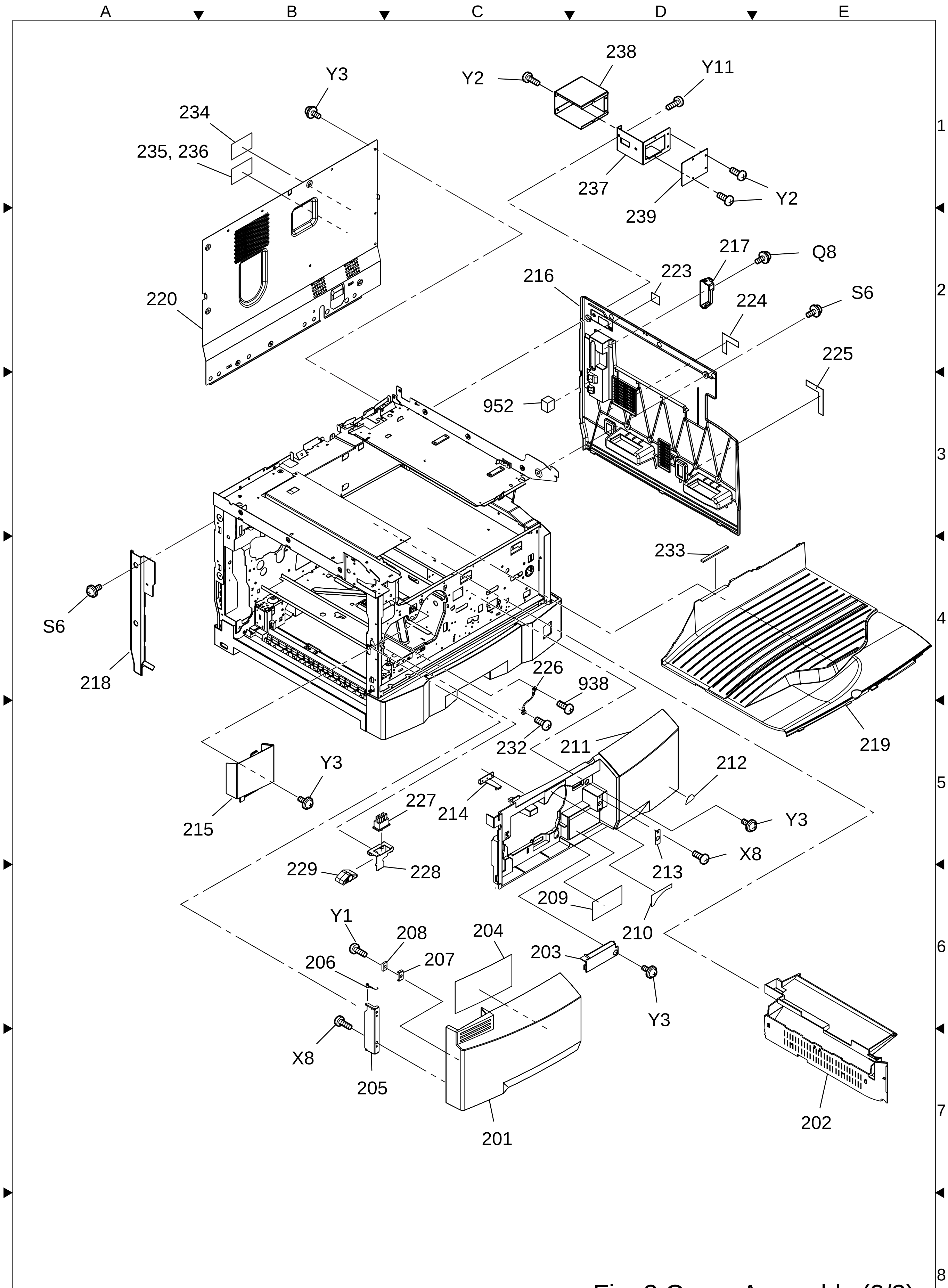
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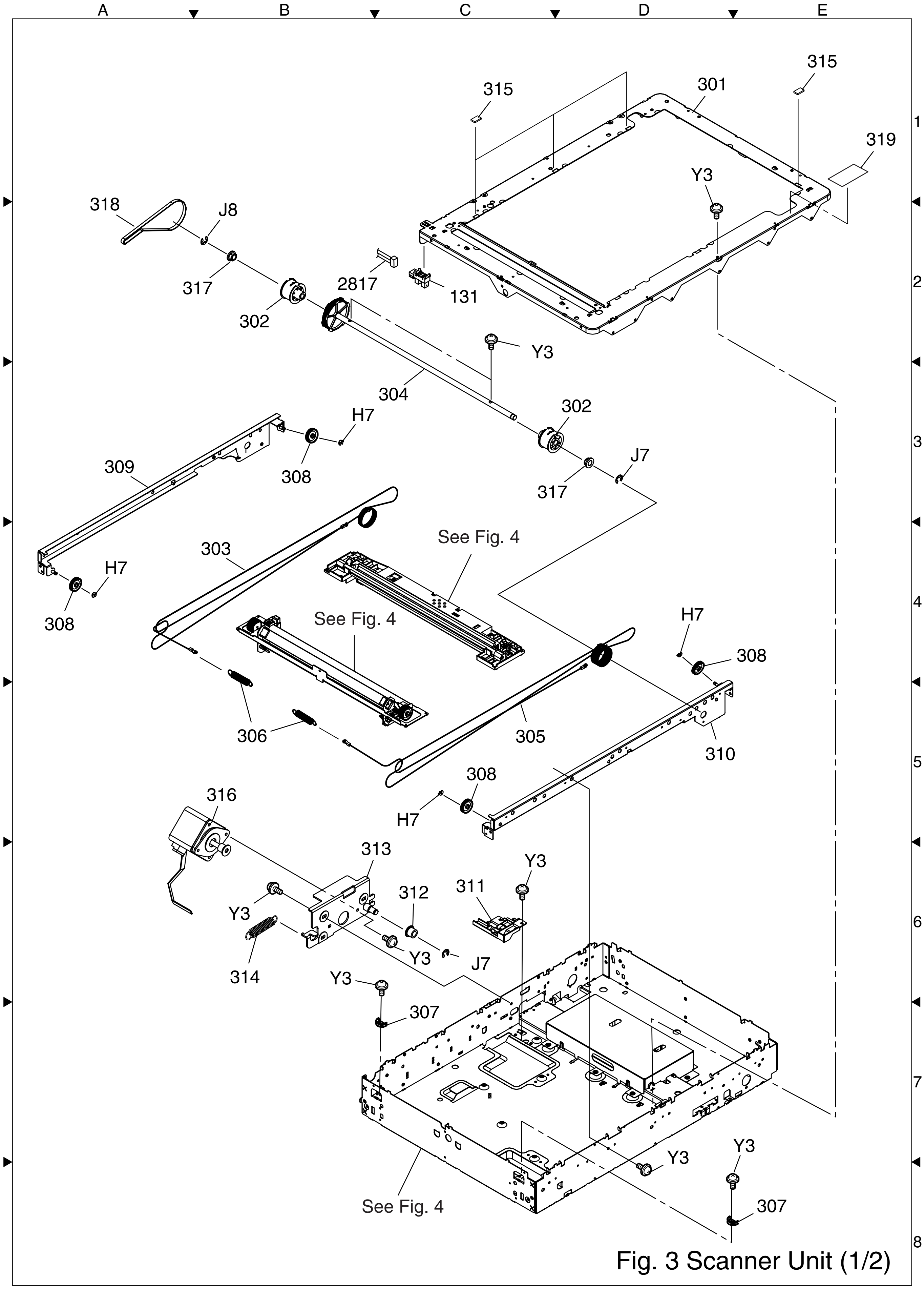
Fig. 2 Cover Assembly (2/2)

5.3. Scanner Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	301	DZJB000431	Frame, Upper Scanner	C		All
	302	DZLD000024	Drum, Wire	C		All
	303	DZJL000395	Wire, Rear	C		All
	304	DZHP009898	Assembly, Drive Shaft	C		All
	305	DZJL000396	Wire, Front	C		All
	306	DZKN000404	Spring, Wire	C		All
	307	DZJF000648	Guide, Wire	C		All
	308	DZLC000001	Pulley, Idler	C		All
	309	DZJA001388	Rail, Rear	C		All
	310	DZJA001387	Rail, Front	C		All
	311	DZJK000106	Holder, Lamp Harness	C		All
	312	DZLB000022	Pulley, Scanner	C		All
	313	DZJA001392	Bracket, Motor	C		All
	314	DZKN000403	Spring, Motor	C		All
	315	DZJN000087	Plate, Rubber	C		All
⚠	316	DZGG000074	Motor, Scanning	C		All
	317	DZLM000214	Bushing	C		All
	318	DZLK000044	Belt, Synchro	C		All
	319	DZJM001366	Sheet, Protection	C		All
	131	DZAL000211	Sensor, Photo	C		All
	2817	DZFP001598	Harness, SNS	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	J7	XUC4VM	E-Ring	C		All
	J8	XUC7VM	E-Ring	C		All
	Y3	XTW3+6LFJ	Screw	C		All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See Fig. 4
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H7
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See Fig. 4
H7
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311
Y3
Y3
314
J7
Y3
307
Y3
Y3
See Fig. 4
307

Fig. 3 Scanner Unit (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	401	DZJB000430	Frame, Lower Scanner	C		All
	402	DZJB000432	Frame, CCD	C		All
	403	DZHC000170	Cover 1, Harness	C		All
	404	DZJA001439	Bracket, Dehumidifier Heater	C		All
	405	DZJA001438	Bracket, Harness	C		All
	406	DZJA001384	Cover, CCD	C		All
	407	DZJM001317	Frame, Mirror 1	C		All
	408	DZJM001347	Slider	C		All
	409	DZKP000370	Plate, Mirror 1 Spring	C		All
⚠	410	DZGM000011	Lamp, Scanning	C		All
	411	DZTD000004	Sheet, Reflective	C		All
	412	DZJC000381	Plate, Wire Lock	C		All
	413	DZJC000382	Plate, Rear Wire Holder	C		All
	414	DZJC000383	Plate, Front Wire Holder	C		All
	415	DZTC000052	Mirror 1	C		All
⚠	416	DZEA000088	PC Board, Inverter	C		All
	417	DZJA001389	Base, Mirror 2	C		All
	418	DZJC000384	Plate, Pulley	C		All
	419	DZJA001391	Holder, Front Mirror	C		All
	420	DZKP000280	Spring, 2/3 Mirror	C		All
	421	DZTC000053	Mirror 2	C		All
	422	DZJM001319	Guide, Lamp Harness	C		All
	423	DZJA001390	Holder, Rear Mirror	C		All
⚠	424	FFPCP0034	Heater	C		All
	425	DZHD000036	Sleeve, Heater	C		All
⚠	426	FFPTE2259	Label, HV	C		All
	427	PJZNF3100PK	CCD Unit	N		All
	428	DZJN000093	Rubber, CCD Frame	C		All
	429	DZJK000045	Clamp	C		All
	430	DZJK000046	Clamp	C		All
	308	DZLC000001	Pulley, Idler	C		All
	2811	DZFP001622	Harness, CCD	C		All
	2829	DZFP001594	Harness, INV	C		All
	2830	DZFP001639	Harness, PTC-AC 1	C		All
	2834	DZFP001640	Harness, PTC-AC 2	C		All
	J6	XUC3VM	E-Ring	C		All
	X4	XTB3+20GFJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

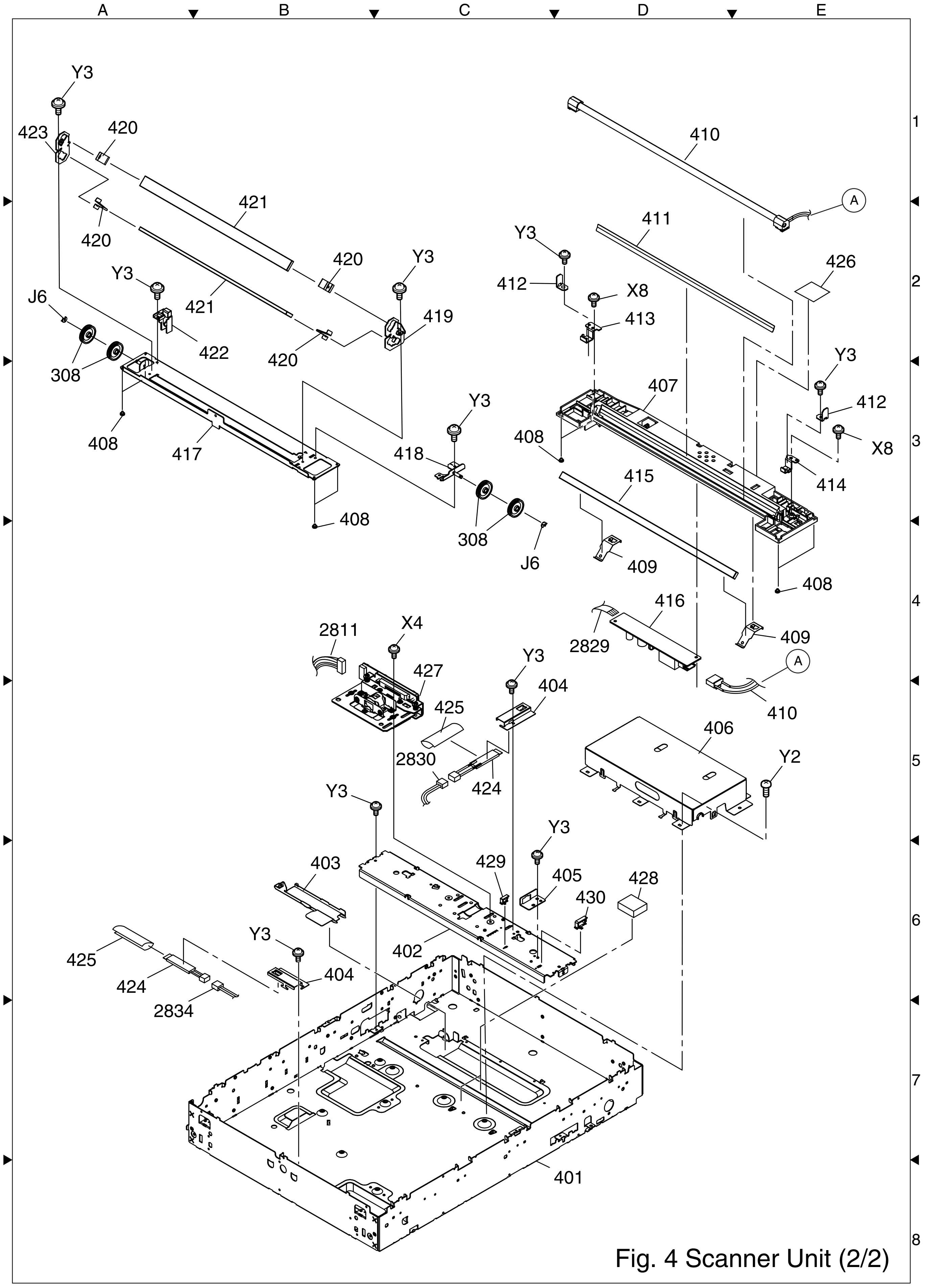
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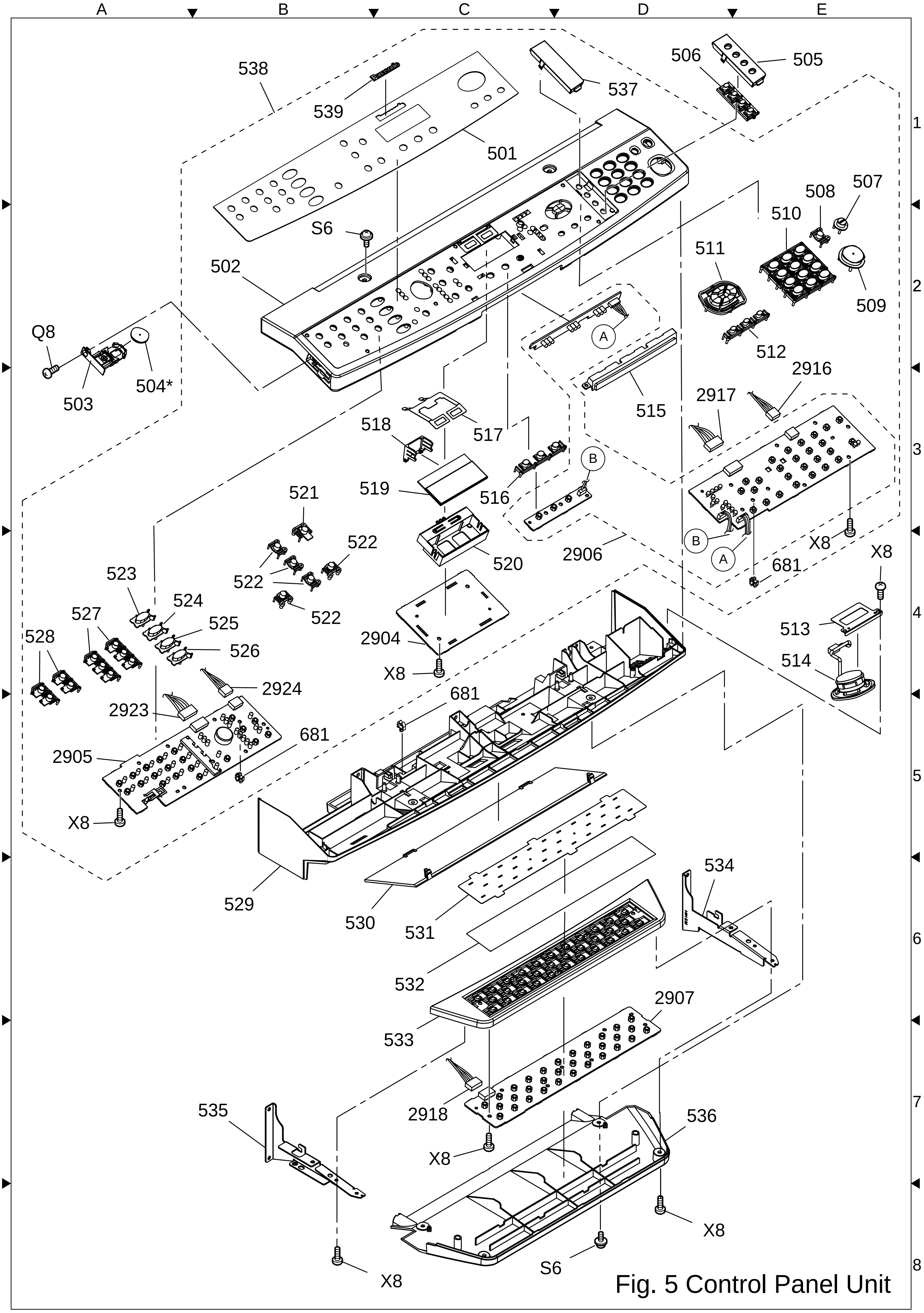
Fig. 4 Scanner Unit (2/2)

5.4. Control Panel Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	501	DZNA001161	Window, Panel	N	For DP-8016P	PF
		DZNA001158				PK
		DZNA001155				PU,PUG,Other
		DZNA001164				PT
		DZNA001159			For DP-8020P*	PF
		DZNA001156				PK
		DZNA001153				PU,PUG,Other
		DZNA001162				PT
		DZNA001160			For DP-8020E	PF
		DZNA001157				PK
		DZNA001154				PU,PUG,Other
		DZNA001163				PT
⚠	502	DZJE001218	Cover, Panel	C		PF
		DZJE001219				PK
		DZJE001165				PU,PUG,Other
		DZJE001221				PT
	503	DZJE001175	Holder, Battery	C		All
⚠	504*	CR2032	Battery	C		All
	505	DZJE001173	Cover, Key	C	For DP-8020E/8020P*	AUR, Other
		DZJE001213				YVR
		DZJE001214				AER
		DZJE001216				AVR
	506	DZNA001042	Key	C	For DP-8020E/8020P*	All
	507	DZKB000762	Key, Stop	C		All
	508	DZKB000641	Key, Reset	C		All
	509	DZKB000796	Key, Start	C		All
	510	DZKB000927	Keys, Numerical	C	For DP-8020E/8020P*	PU, PUG
		DZKB000929			For DP-8016P	All
					For DP-8020E/8020P*	PF
		DZKB000928				Except PF, PU, PUG
	511	PJBCB0018Z-1	Key, Zoom	C		All
	512	DZKB000930	Key, Function	C		All
	513	DZKP000365	Spring, Speaker	C		All
⚠	514	DZHP010070	Assembly, Speaker	C		All
	515	DZNA001040	Lamp, Active	C		All
	516	PJBCB0016Z	Key, Contrast	C		All
	517	DZKP000385	Plate 1, Ground	C		All
	518	DZNA001051	Cover, Harness Protection	C		All
	519	MGG03204Z03	LCD Module	C		All
	520	DZNA001044	Holder, LCD	C		All
	521	DZKB000931	Key, A	C		All
	522	DZKB000669	Key, B	C		All

* **Notice: California only:**
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate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X8
S6
X8

Fig. 5 Control Panel Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	523	DZNA001046	Key, Copy	C	For DP-8020E/8020P*	All
	524	DZNA001047	Key, Fax/E-mail	C	For DP-8020E/8020P*	All
	525	DZNA001048	Key, Scan/File	C	For DP-8020E/8020P*	All
	526	DZNA001049	Key, Print	C		All
	527	DZKB000924	Key, Touch 3	C		All
	528	DZKB000923	Key, Touch 2	C		All
⚠	529	DZJE001167	Cover, Control Panel Base	C		All
	530	DZJE001169	Cover, Control Panel Sub Base	C		All
	531	DZNA001055	Sheet, Keyboard	C	For DP-8020E/8020P* (English)	All
		DZNA001058			For DP-8020E/8020P* (French)	All
		DZNA001059			For DP-8020E/8020P* (German)	All
	532	DZNA001053	Sheet, Keyboard Base	C	For DP-8020E/8020P*	All
	533	DZJE001177	Cover, Keyboard	C	For DP-8020E/8020P*	All
	534	DZJA001365	Bracket, Right Keyboard	C	For DP-8020E/8020P*	All
	535	DZJA001366	Bracket, Left Keyboard	C	For DP-8020E/8020P*	All
⚠	536	DZJE001179	Cover, Keyboard Lower	C	For DP-8020E/8020P*	All
	537	DZJE001171	Cover, Aperture	C	For DP-8016P	All
	538	PJYPF3182PU	Assembly, Control Panel	N	For DP-8016P	PU, PUG, PA, PB, PM, PP, PS, PY
		PJYPF3182PF				PF
		PJYPF3182PK				PK
		PJYPF3182PT				PT
		PJYPF3181PU			For DP-8020P*	PU, PUG
		PJYPF3181PB				PA, PB, PM, PP, PS, PY
		PJYPF3181PF				PF
		PJYPF3181PK				PK
		PJYPF3181PT				PT
		PJYPF3180PU			For DP-8020E	PU, PUG
		PJYPF3180PB				PA, PB, PM, PP, PS, PY
		PJYPF3180PF				PF
		PJYPF3180PK				PK
		PJYPF3180PT				PT
	539	DZNM000005	Logo, Panasonic	C		All
	681	DZJK000023	Clamp	C		All
	2904	DZEC102911R	PC Board, PNL1	C	RTL/PbF	All
	2905	DZEC102912R	PC Board, PNL2	C		All
	2906	DZEC102913R	PC Board, PNL3	C		All
	2907	DZEC103049R	PC Board, PNL4	C	For DP-8020E/8020P*	All
	2916	DZFP001627	Harness, PNL1-PNL3 A	C		All
	2917	DZFP001628	Harness, PNL1-PNL3 B	C		All
	2918	DZFP001629	Harness, PNL1-PNL4	C		All
	2923	DZFP001533	Harness, PNL2 1	C		All
	2924	DZFP001534	Harness, PNL2 2	C		All
	Q8	XTB3+8GFN	Screw	C		All
	S6	DZPA000086	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All

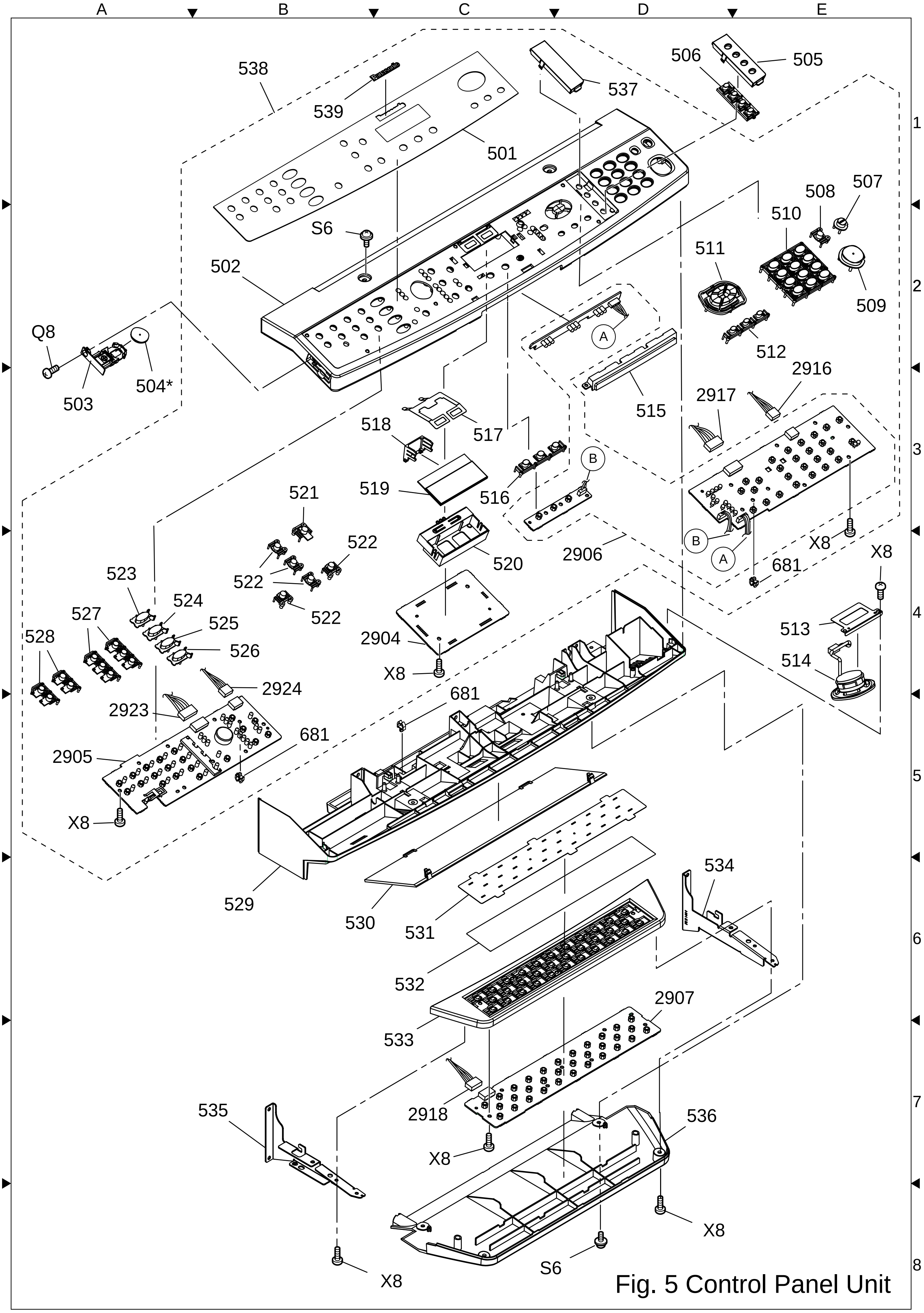
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Fig. 5 Control Panel Unit

5.5. Paper Transportation

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	601	DZLA000371	Roller, Registration	C		All
	602	DZLF000748	Gear, 18 Timing Roller	C		All
	603	DZLM000006	Bushing 2, P6L5	C		All
	604	DZLM000215	Collar, Timing Roller	C		All
	606	DZJA001405	Bracket, Registration Sensor	C		All
	607	DZKL000083	Lever, Paper Exit Sensor	C		All
	608	DZKL000084	Actuator, Registration Sensor	C		All
	609	DZKQ000111	Spring, Registration Sensor	C		All
	611	DZKK000126	Latch, Arm	C		All
	614	DZKQ000110	Spring, Latch	C		All
	615	DZJF000650	Guide, Upper	C		All
	616	DZJF000651	Guide, Front	C		All
	617	DZJF000668	Guide, Feed Roller	C		All
	618	DZLM000213	Bushing	C		All
	619	DZLA000363	Roller, Pickup	C	PM	All
	620	DZKG000384	Shaft, Pickup	C		All
	621	DZLF000711	Gear, Pickup Idler	C		All
	622	DZLG000035	Clutch, One-way	C		All
	623	DZLA000360	Roller, Feed	C	PM	All
	624	DZLF000710	Gear, Pickup Drive	C		All
	625	DZKQ000107	Spring, Pickup	C		All
	626	DZKG000383	Shaft, Feed	C		All
	627	DZJA001402	Bracket, Pickup	C		All
	629	DZLA000366	Roller, Reverse	C	PM	All
	631	DZKK000129	Arm, Reverse	C		All
	632	DZJA001420	Bracket, Reverse	C		All
	633	DZKG000405	Shaft, Reverse	C		All
	634	DZJF000655	Guide, Lower	C		All
	635	DZJM001345	Film, Lower Guide	C		All
	636	DZJM001344	Film, Rear Guide	C		All
	637	DZJM001357	Film, Front Guide	C		All
	638	DZJF000653	Guide, Duplex	C		All
	639	PJDGC0186Z	Gear, Feed	N		All
	640	PJBAC0044Z	Case, Clutch	N		All
	641	PJBVC0149Z	Spring, Clutch	N		All
	642	DZLM000050	Bushing, P6L8	C		All
	643	DZJH000127	Collar, Stopper	C		All
	647	DZJC000387	Guide, Shaft	C		All
	649	DZJL000397	Plate, Pressure	C		All
	650	DZJF000652	Tray, Guide	C		All
	651	DZLM000212	Bushing, Left	C		All
	653	PJUSC0077Z	Spacer, Feed	N		All
	654	DZGK000471	Shaft, Reverse Roller	C		All
	655	DZJM001343	Film, Separation Roller	C		All

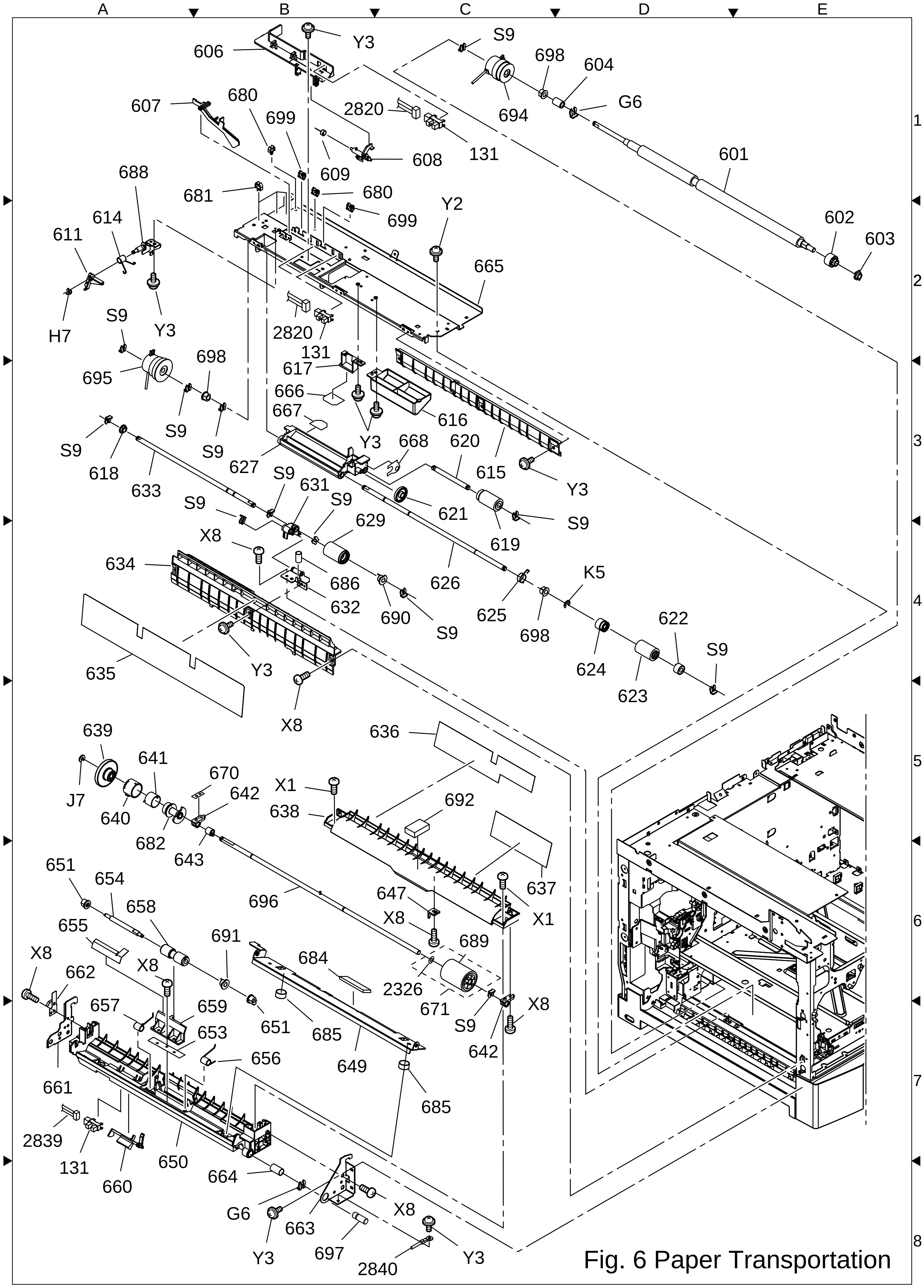
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Fig. 6 Paper Transportation

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	656	DZKQ000116	Spring, Front	C		All
	657	DZKQ000117	Spring, Rear	C		All
	658	DZLA000365	Roller, Separation	C	PM	All
	659	DZJF000654	Guide	C		All
	660	DZKL000085	Actuator, No Paper	C		All
	661	DZJA001407	Bracket, Rear Guide	C		All
	662	DZKP000375	Ground Spring	C		All
	663	DZJA001406	Bracket, Front Guide	C		All
	664	DZKN000420	Spring, Fulcrum	C		All
	665	DZJB000438	Bracket, Feed	C		All
	666	DZJM001378	Film, Guide	C		All
	667	DZJM001381	Sheet, Guide	C		All
	668	DZJM001388	Film, Guard	C		All
	670	DZNE000132	Spacer	C		All
	671	DZHP012149	Roller Feed Bypass Assy	C		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	682	PJDHC0019Z	Cam, Feed	N		All
	684	DZJP000065	Board, Pad	C		All
	685	PJBVC0151Z	Spring	C		All
	686	DZKN000416	Spring, Reverse	C		All
	688	DZJA001427	Assembly, Latch Bracket	C		All
	689	DZLA000415	Roller, Feed	C	PM	All
	690	DZHP010738	Torque Limiter 1	C	PM	All
	691	DZHP010737	Torque Limiter 2	C	PM	All
	692	DZJM001387	Damper	C		All
⚠	694	L9EAAK000009	Clutch, Micro 2	C		All
⚠	695	L9EAAK000010	Clutch, Micro 1	C		All
	696	PJZFF3180PB	Assembly, Feed Roller Shaft	C		All
	697	DZKG000419	Pin, Fulcrum	C		All
	698	FFPMQ0649	Bushing	C		All
	699	DZJK000057	Clamp	C		All
	131	DZAL000211	Sensor, Photo	C		All
	2326	DZPK000017	Washer	C		All
	2820	DZFP001597	Harness, Paper Tray Sensor	C		All
	2839	DZFP001608	Harness, HEPESEN	C		All
	2840	DZFP001616	Harness, Frame Ground	C		All
	G6	FFPFJ0039B	Snap Ring	C		All
	J7	XUC4VM	E-Ring	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	K5	XUC5VM	E-Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	X1	XTB3+10GFJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

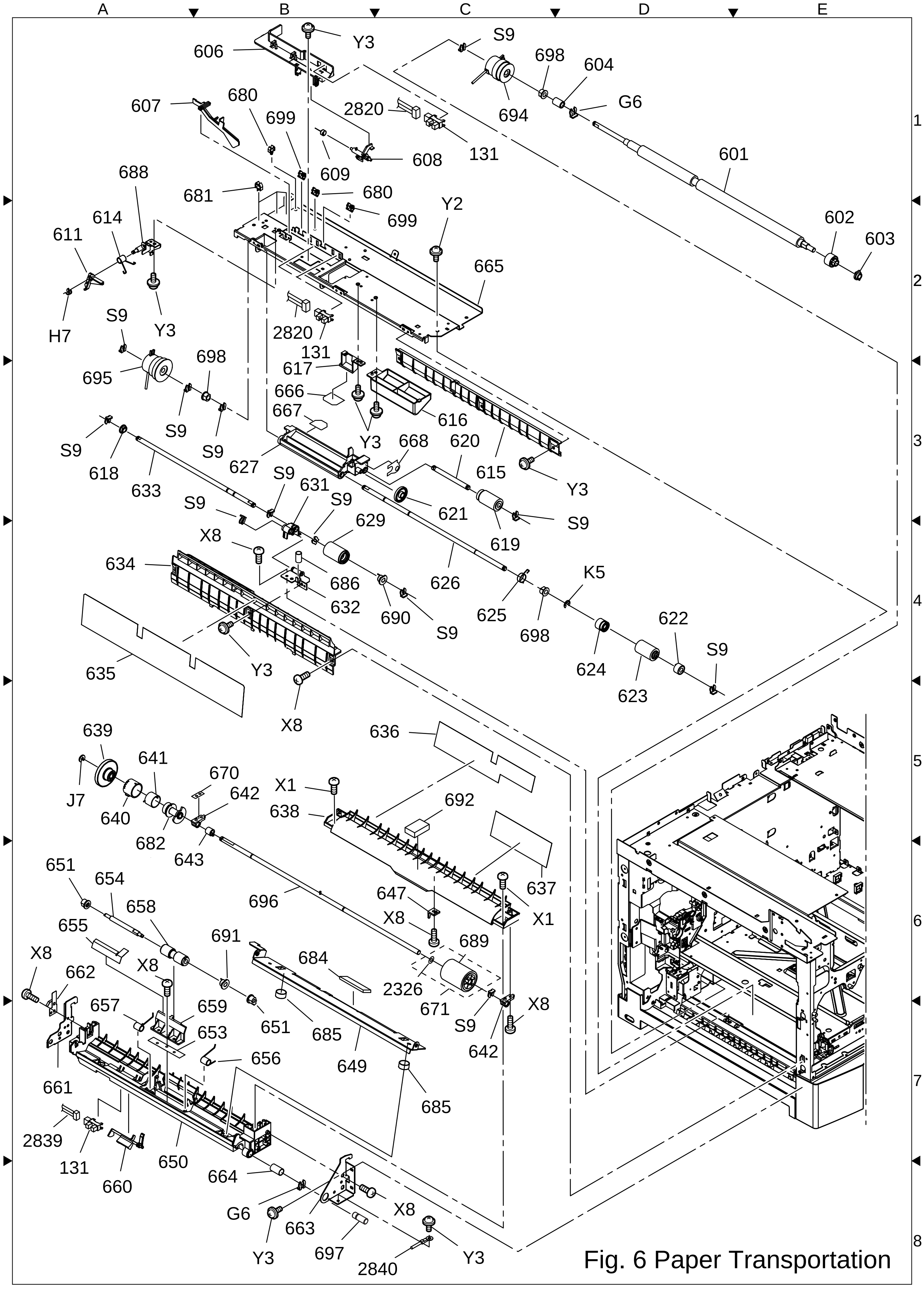
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Fig. 6 Paper Transportation

5.6. Automatic Duplex Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	703	DZGT000032	Brush, Discharge	C		All
	704	DZJL000404	Plate, Discharge	C		All
	705	DZJH000128	Spacer, BTR Ring	C		All
	706	DZLF000745	Gear, BTR 27	C		All
	707	DZKN000418	Spring, BTR	C		All
	708	DZKN000181	Spring, Timing Roller	C		All
	709	DZLM000133	Bushing, Bias Transfer	C		All
	710	DZLF000746	Gear, 17 Pinch Timing Roller	C		All
	711	DZLA000368	Roller, Bias Transfer	C	PM	All
	712	DZLA000367	Roller, Pinch Timing	C		All
	713	DZKP000376	Lead, HV Bias Transfer	C		All
	714	DZKP000378	Lead, Plate Discharge	C		All
	715	DZKP000377	Lead, Pinch Roller Timing	C		All
	716	FFPLP0769C	Spring, Terminal	C		All
	717	DZFP000747	Resistor, 200M ohm	C		All
⚠	718	DZJF000659	Guide, Transfer	C		All
	719	DZKK000130	Arm, Rear Frame	C		All
	720	DZKK000131	Arm, Rear Cover	C		All
	723	DZKL000086	Lever, Release	C		All
	725	DZJA001425	Stopper, Release	C		All
⚠	726	DZJE001202	Cover, Printer	C		All
	727	DZKP000379	Bracket, Pinch Roller	C	For DP-8020E	All
	728	DZLA000369	Roller, Duplex Pinch	C	For DP-8020E	All
	729	DZKN000417	Spring, Release	C		All
	730	DZKQ000120	Spring, Actuator	C	For DP-8020E	All
	731	DZKL000088	Actuator, Duplex Paper	C	For DP-8020E	All
	732	DZJF000661	Guide, Duplex 2	C	For DP-8020E	All
	733	FFPMQ0648	Bushing, Front	C	For DP-8020E	All
	734	DZLM000134	Bushing, Rear	C	For DP-8020E	All
	735	DZLA000370	Roller, Duplex Feed	C	For DP-8020E	All
	736	DZLB000060	Pulley, 19 Duplex	C	For DP-8020E	All
	737	DZLK000031	Belt, Timing T1	C	For DP-8020E	All
	738	DZLF000747	Gear, 15 Duplex	C	For DP-8020E	All
	739	DZJF000656	Guide, Duplex	C	For DP-8020E	All
	740	DZLF000354	Gear, E25	C	For DP-8020E	All
	741	DZLF000342	Gear, E20	C	For DP-8020E	All
	743	DZKK000090	Stopper, Tray	C		All
	744	DZHP009941	Bracket, Front Cover	C		All
	745	DZHP009942	Bracket, Rear Cover	C		All
	746	DZHP009943	Plate, Duplex Drive	C	For DP-8020E	All
	748	PJVZF2121PB	Guide Bias Transfer Assy	C		All

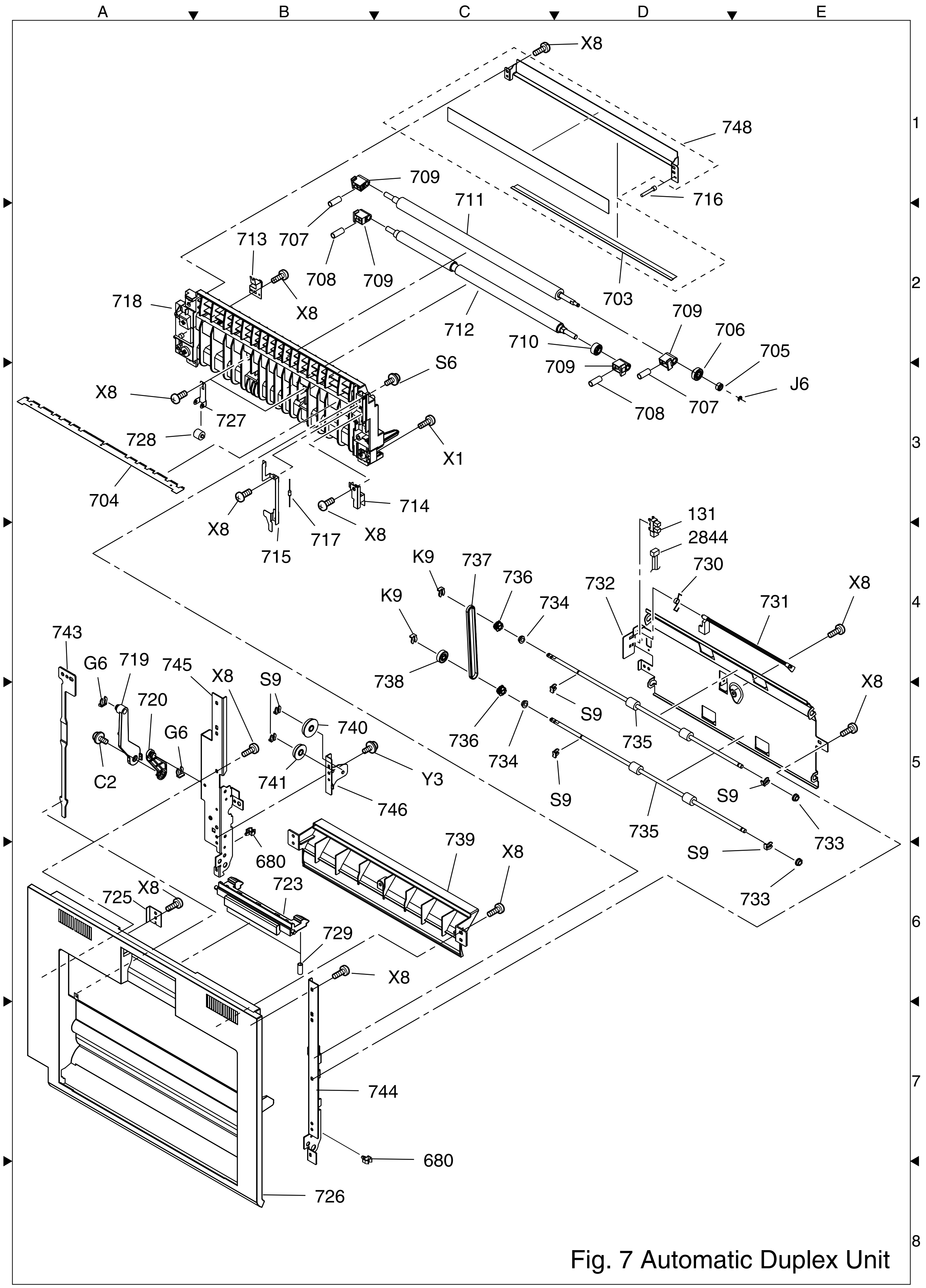
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Fig. 7 Automatic Duplex Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	131	DZAL000211	Sensor, Photo	C		All
	680	DZJK000004	Clamp	C		All
	2844	DZFP001607	Harness, DUPSEN	C	For DP-8020E	All
	C2	DZPB000020	Screw	C		All
	G6	FFPFJ0039B	Snap Ring	C		All
	J6	XUC3VM	E-Ring	C		All
	K9	FFPFJ0043B	Snap Ring	C		All
	S6	DZPA000086	Screw	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	X1	XTB3+10GFJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

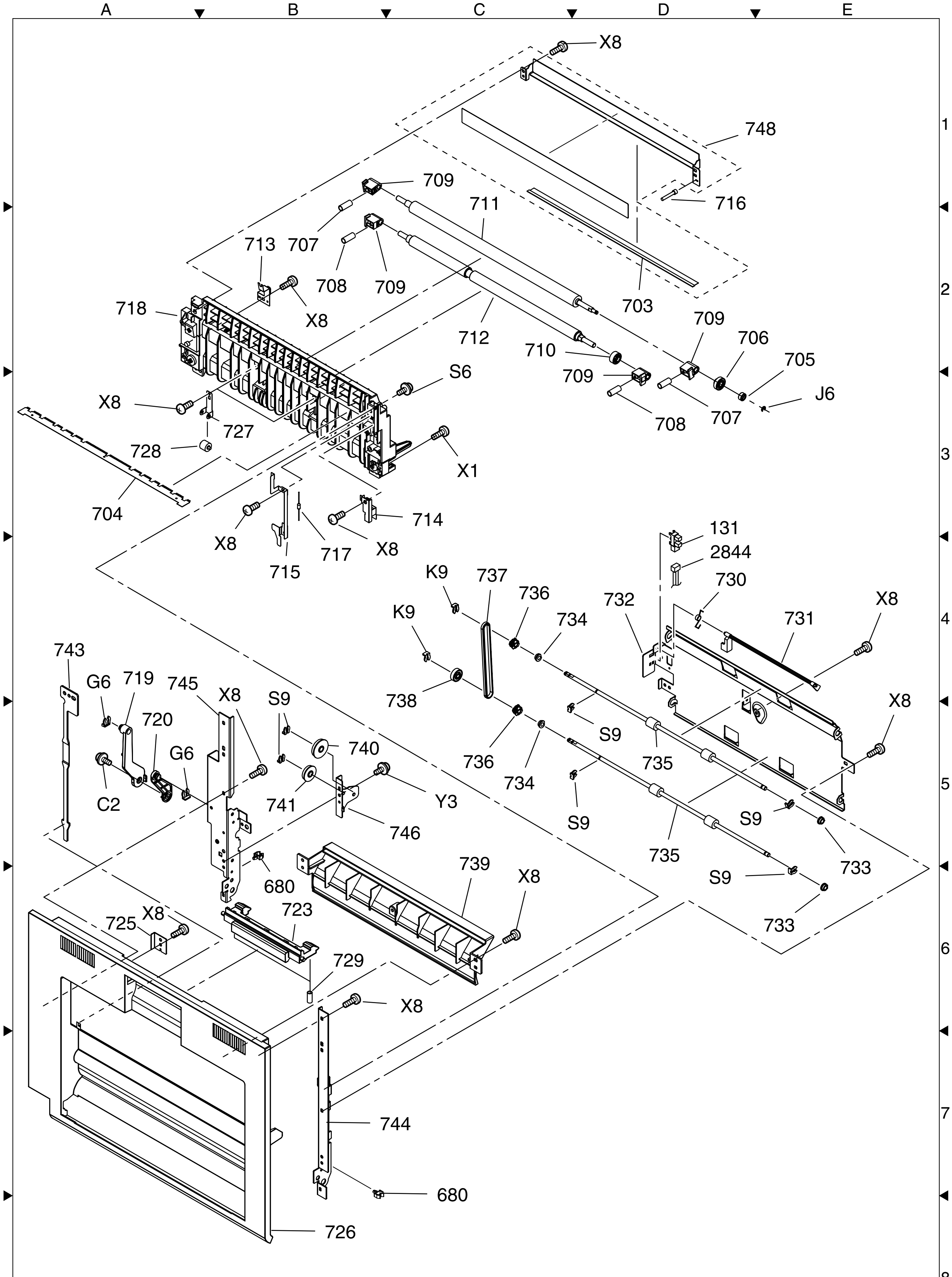
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Fig. 7 Automatic Duplex Unit

5.7. Electrical Parts

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	801	DZHD000038	Cover, PS	C		All
	802	DZJA001379	Bracket, PS	C		All
	803	DZMC000824	Bracket, Right	C		All
⚠	804	M0CE00000028	HDD Unit	C		All
	805	DZJE001207	Cover, HDD	C		All
	806	DZMC000825	Handle	C		All
	807	DZJC000380	Bracket, PS SW	C		All
	808	DZJA001436	Bracket, RLB PCB SW	C		All
	809	DZJA001437	Bracket, RLB PCB	C		All
	810	DZJA001378	Base, PS	C		All
	811	DZJA001443	Bracket, MJR PCB	C		All
	812	DZKP000374	Spring, LAN	C		All
	813	DZJA001377	Bracket, PS Cover	C		All
⚠	814	DZCC000006	Switch, Power	C		All
⚠	815	L6FALEGK0018	Fan, Rear	N	For DP-8020E/8020P*	All
		DZGG000075		C	For DP-8016P	
⚠	816	DZGG000076	Fan, PS	C		All
	817	L2BA00000007	PC Board, HSU	C		All
⚠	818	DZCC000011	Switch, Power	C		All
⚠	819	G0A173J00001	Coil 1	C		Except PU, PT, PK, PUG
⚠	820	G0A352H00002 or DZDG000177	Coil 2	C		Except PU, PT, PUG
				N		
⚠	821	DZTK000002	Counter	C		PB, PF, PM, PP, PS
	822	DZJH000084	Supporter, PC Board	C		Europe only
	823	DZHE000059	Duct, Exit	C		All
	824	DZJB000449	Holder, Filter	C		All
⚠	825	DZHE000060	Filter, Ozone	C	PM	All
	826	DZMC000827	Guard, Fan	C		All
	827	DZPA000093	Screw	C		All
	828	DZHE000057	Cover, Fan	C		All
⚠	829	LPA3612F-R	LSU Unit	C		PU, PUG, PK, PT
		LPA3612F-BR				Except PU, PUG, PK, PT
⚠	830	FFPTE1621B	Label, HV Caution	C		All
	832	DZJH000063	Spacer, PCB	C		All
	833	DZJF000462	Guide, Card	C	For DP-8020E/8020P*	All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	937	DZPA000091	Screw	C		Except PU, PT, PUG, PK
	939	DZMM000038	Foot, Damping	C		Except PU, PT, PUG, PK
	940	DZJK000070	Clamp	C		All
	941	DZJB000459	Base, CHC	C		Except PU, PT, PUG, PK

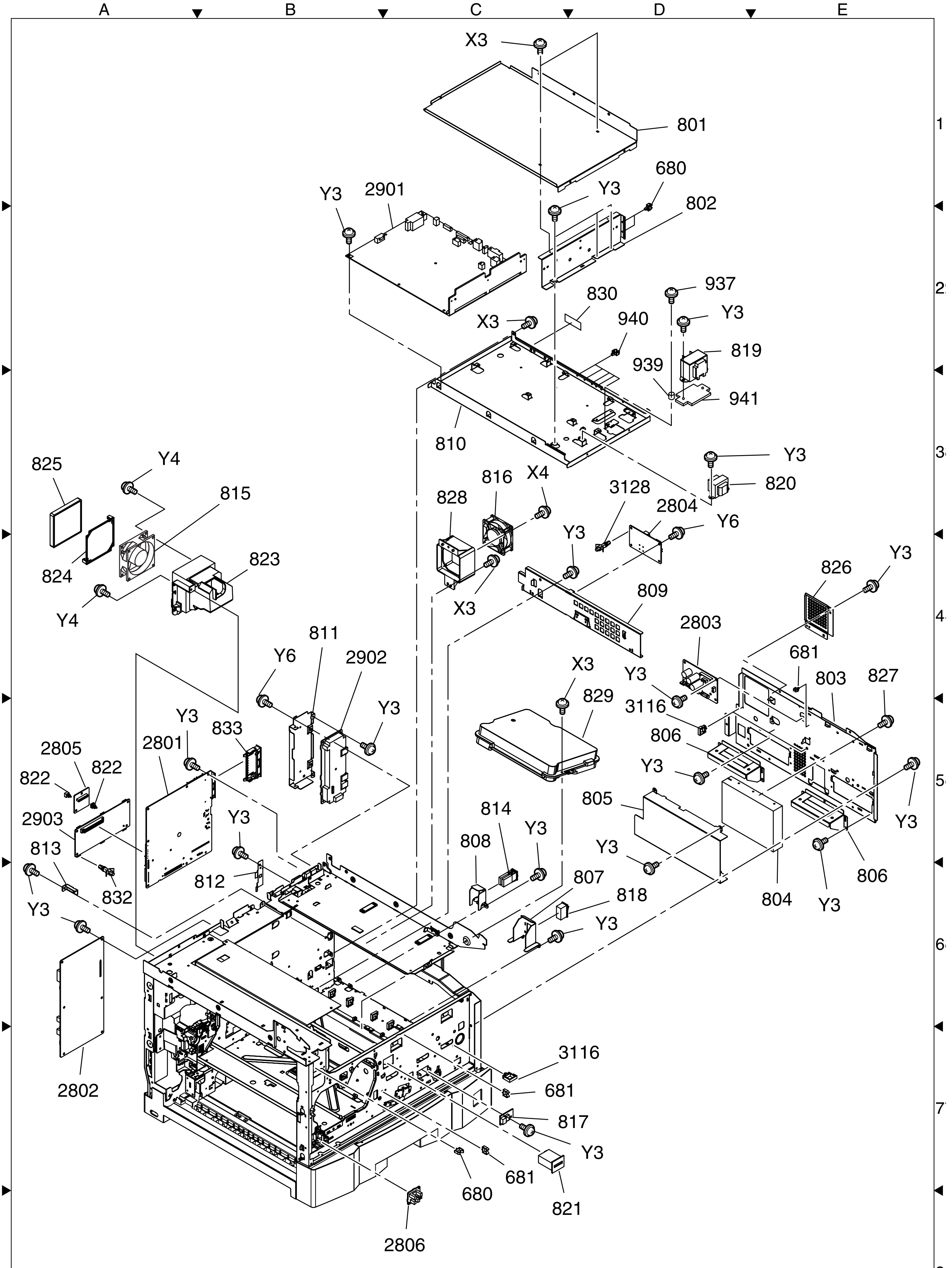
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Fig. 8 Electrical Parts

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2801	Depends on Destination	PC Board, SC	N	See Sect. 5.17 PC Boards (RTL/PbF)	
	2802	DZEC104147	PC Board, SPC	N	RTL/PbF	All
	2803	DZEC102176R	PC Board, DC	C	RTL/PbF	All
	2805	DZEC103692	PC Board, FRM8	C	RTL/PbF	Europe only
	2806	DZEC102751R	PC Board, WTS	C		All
⚠	2901	Depends on Destination	PC Board, PS	C	See Sect. 5.17 PC Boards	
⚠	2902	Depends on Destination	PC Board, MJR	C	See Sect. 5.17 PC Boards (RTL/PbF)	
⚠	2903	Depends on Destination	PC Board, FXB	C	See Sect. 5.17 PC Boards (RTL/PbF)	
	3116	DZJK000068	Clamp 2, Locking	C		All
	3128	DZJH000026	Spacer, PCB	C		All
	X3	XYN3+F8FJ	Screw	C		All
	X4	XTB3+20GFJ	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All
	Y4	XTB3+32GFJ	Screw	C		All
	Y6	XTW3+6LFJR	Screw	C		All

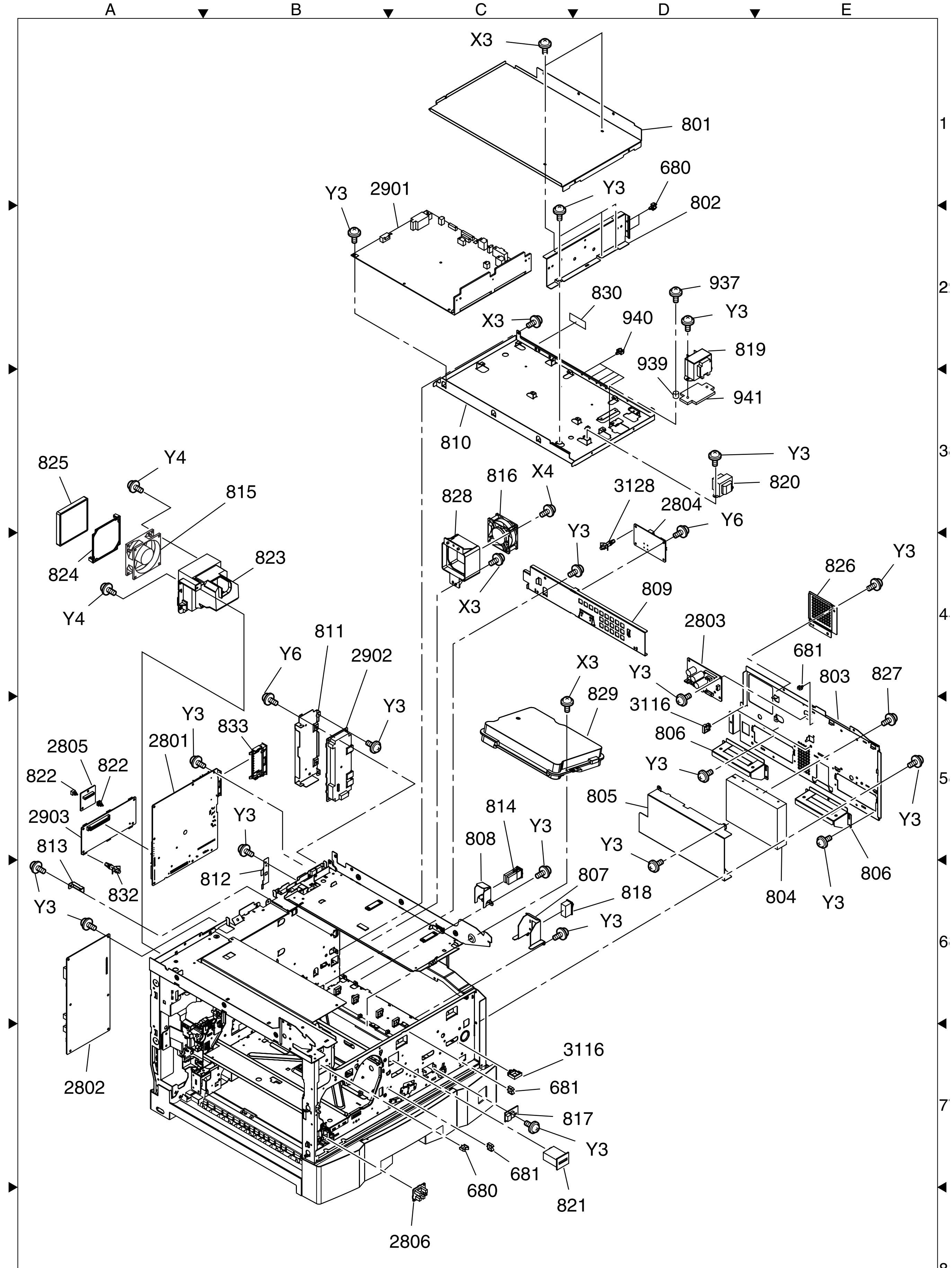
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Fig. 8 Electrical Parts

5.8. Frame Parts

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	901	DZJB000442	Frame, Right Scanner	C		All
	902	DZJA001371	Post, Rear SC	C		All
	903	DZJA001370	Post, Front SC	C		All
	904	DZJA001369	Frame, SC	C		All
	905	DZJA001368	Bracket, LSU 2	C		All
	906	DZMC000823	Bracket, Center	C		All
	907	DZJB000441	Frame, Left Scanner	C		All
	908	DZJA001372	Bracket, LSU 1	C		All
	909	DZJA001374	Bracket, Bottle	C		All
	910	DZMC000822	Frame, Front	C		All
	911	DZKJ000017	Plate, DIAL	C		All
	912	DZJC000378	Plate, SA	C		All
	913	DZKK000119	Lever, SA	C		All
	914	DZJA001373	Bracket, Toner	C		All
⚠	915	DZJD000039	Plate, Engine FL	C		All
	916	DZJA001367	Bracket, Connector	C		All
⚠	918	DZJD000038	Plate, Engine FU	C		All
	920	DZKP000367	Spring, PS Cover	C		All
	922	DZKP000366	Spring, PS	C		All
	923	DZJB000445	Cover, CST	C		All
	924	DZJB000443	Bracket, Inlet	C		All
	926	DZJB000440	Bracket, SPC PCB	C		All
	928	DZJB000444	Bracket, Rear	C		All
	929	DZKN000410	Spring, Contact	C		All
	930	DZJD000044	Holder, Contact Spring	C		All
	931	DZMC000821	Plate, Base	C		All
	932	DZKP000380	Lead, BTR Frame	C		All
⚠	933	DZJD000043	Holder, Rear Engine	C		All
	934	DZJB000421	Frame, Center	C		All
	935	DZKP000368	Spring, Paper Tray Ground	C		All
	936	FFPKD07791	Bracket, Heater	C		All
	937	DZPA000091	Screw	C		Except PU, PT, PUG
	938	DZPA000092	Screw	C		All
	939	DZMM000038	Foot, Damping	C		Except PU, PT, PUG
	941	DZJB000459	Base, CHC	C		Except PU, PT, PUG
	942	DZHE000055	Duct, Upper	C		All
	943	DZHE000056	Duct, Lower	C		All
	944	DZJB000426	Base, Paper Tray L	C		All
⚠	945	DZFA000098	Inlet	C		All

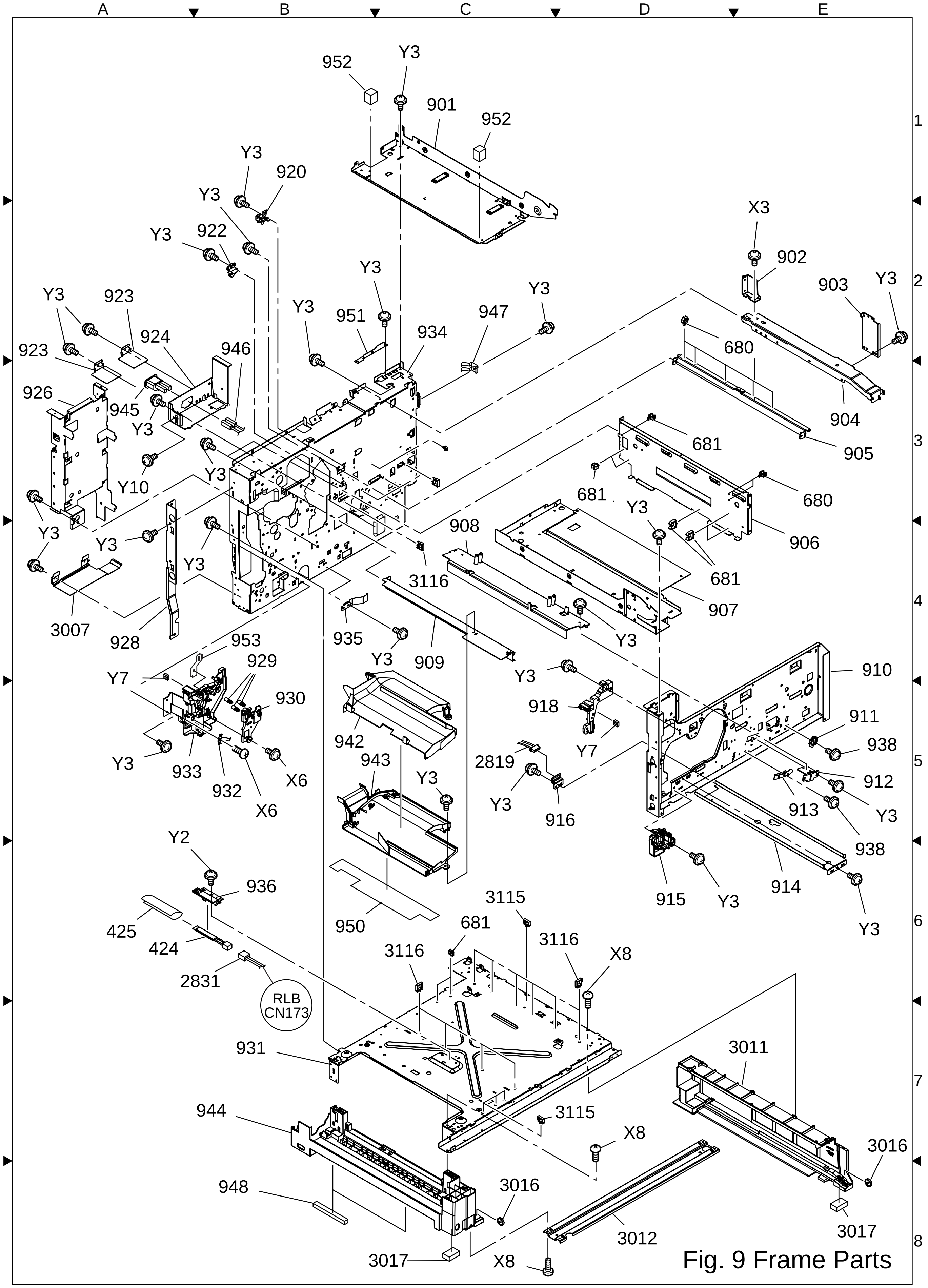
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Fig. 9 Frame Parts

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
⚠	946	DZFP001650	Inlet Harness	C		All
	947	DZJL000023	Plate, Ground	C	For DP-8020E/8020P*	All
	948	DZJN000076	Gum, Paper Tray	C		All
	950	DZJM001363	Film, Airflow Control	C		All
	951	DZJB000463	Guide, Counter	C		All
	952	PJHSC0025Z	Gasket	C		PA, PB, PF, PM, PP, PS, PY
	953	PJBUC0105Z	Plate, Ground Drive	C		All
⚠	424	FFPCP0034	Heater	C		All
	425	DZHD000036	Sleeve, Heater	C		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	2819	DZFP001595	Harness, WTS	C		All
	2831	DZFP001641	Harness, PTC-AC 3	C		All
	3007	DZMB000024	Bracket, Rear Lower Right	C		All
	3011	DZJB000427	Base, Right Paper Tray	C		All
	3012	DZJB000428	Bracket, Paper Tray Base	C		All
	3016	DZLA000198	Roller, Paper Tray	C		All
	3017	DZJF000489	Leg, Gum	C		All
	3115	DZJK000067	Clamp	C		All
	3116	DZJK000068	Clamp	C		All
	X3	XYN3+F8FJ	Screw	C		All
	X6	XTB3+8JFJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All
	Y7	XNC3FJ	Nut	C		All
	Y10	XYN4+F6FJ	Screw	C		All

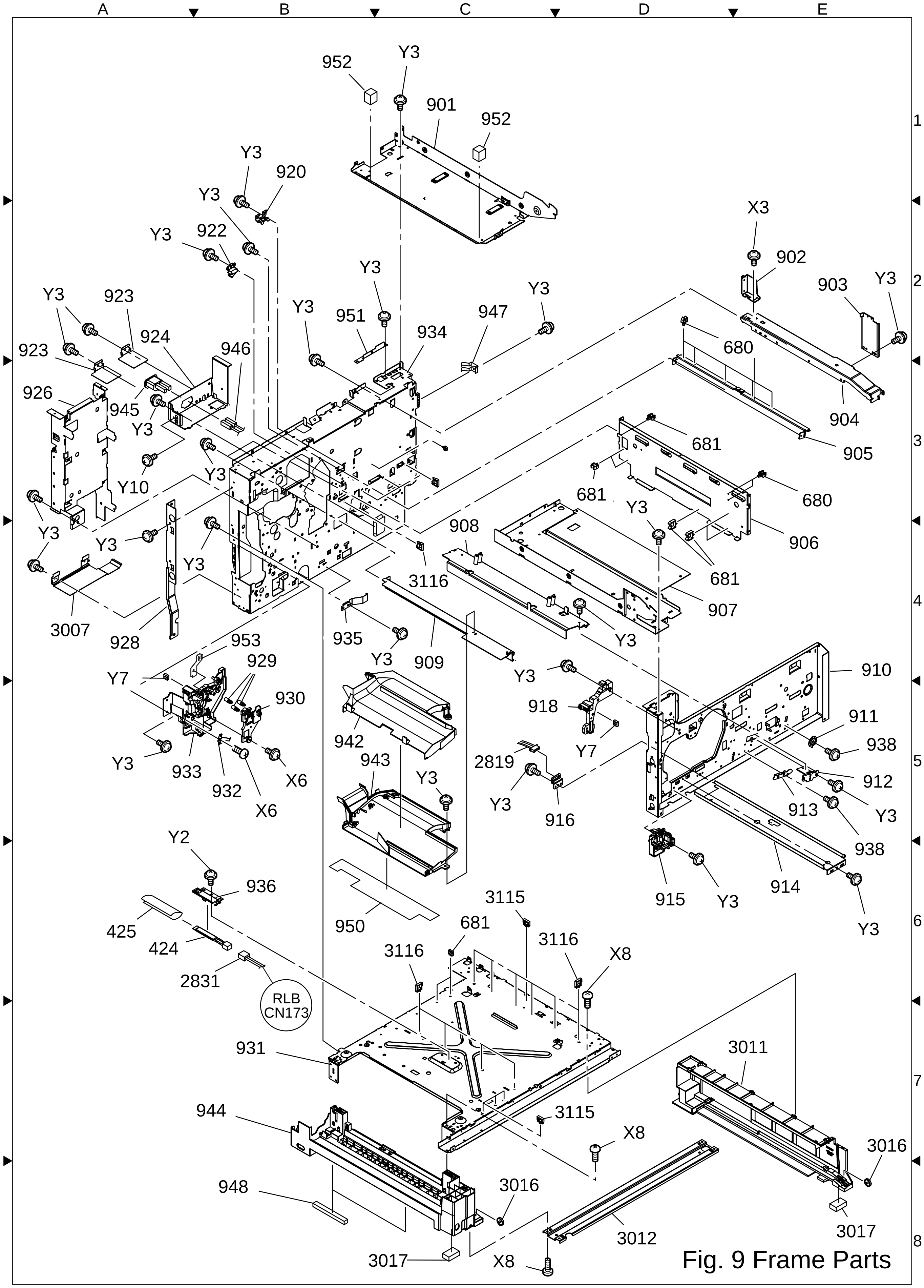
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Fig. 9 Frame Parts

5.9. Fuser Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
⚠	1001	DZJF000702	Guide, SC PCB	C		All
	1002	DZKP000373	Plate, Idle Spring	C		All
	1003	DZLA000083	Roller, Idle	C		All
	1005	DZKP000371	Plate, Ground	C		All
⚠	1006	DZJE001199	Cover, Rear Fuser	C		All
⚠	1007	DZJE001200	Cover, Front Fuser	C		All
	1008	DZKN000407	Spring, Pressure	C		All
	1009	DZLA000357	Roller, Idle 2	C		All
⚠	1010	DZJF000645	Guide, Pressure Roller	C		All
	1011	DZKQ000109	Spring, Opening	C		All
	1012	DZHD000039	Sheet A	C		All
	1013	DZLF000705	Knob, JAM Release	C		All
	1014	DZJA001409	Plate, Knob	C		All
	1016	DZLA000358	Roller, ADU	C	For DP-8020E	All
	1017	DZKN000408	Spring, Idle ADU	C	For DP-8020E	All
	1018	DZKK000124	Plate, Rear Pressure	C		All
	1019	DZKK000122	Plate, Front Pressure	C		All
	1020	DZLM000132	Bushing, Pressure Roller	C	PM	All
	1021	DZLA000362	Roller, Pressure	C	PM	All
	1022	DZKN000409	Spring, Ground	C		All
	1023	DZJF000649	Guide, Front	C		All
	1024	DZKP000372	Plate, Ground 2	C		All
⚠	1025	DZJE001223	Frame, Lower Assy	C		All
⚠	1026	DZNK005265	Label, High Temperature	C		All
⚠	1027	PJZSF3180PU	Fuser Unit	N	For DP-8020E/8020P*	PU, PUG, PT
		PJZSF3180PB				Except PU, PUG, PT
		PJZSF2121PU2			For DP-8016P	PU, PUG, PT
		PJZSF2121PB2				Except PU, PUG, PT
	1028	PJSCC0015Z	Brush, Antistatic	C		All
	131	DZAL000211	Sensor, Photo	C		All
	2838	DZFP001606	Harness, Thermistor 1	C		All
	S6	DZPA000086	Screw	C		All
	S9	FFPFJ0033B	Snap Ring	C		All
		DZJM000171 or				
	X3	XYN3+F8FJ	Screw	C		All
	X7	XYN3+F14FJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y5	XSN3+W10FJ	Screw	C		All
	Y7	XNC3FJ	Nut	C		All

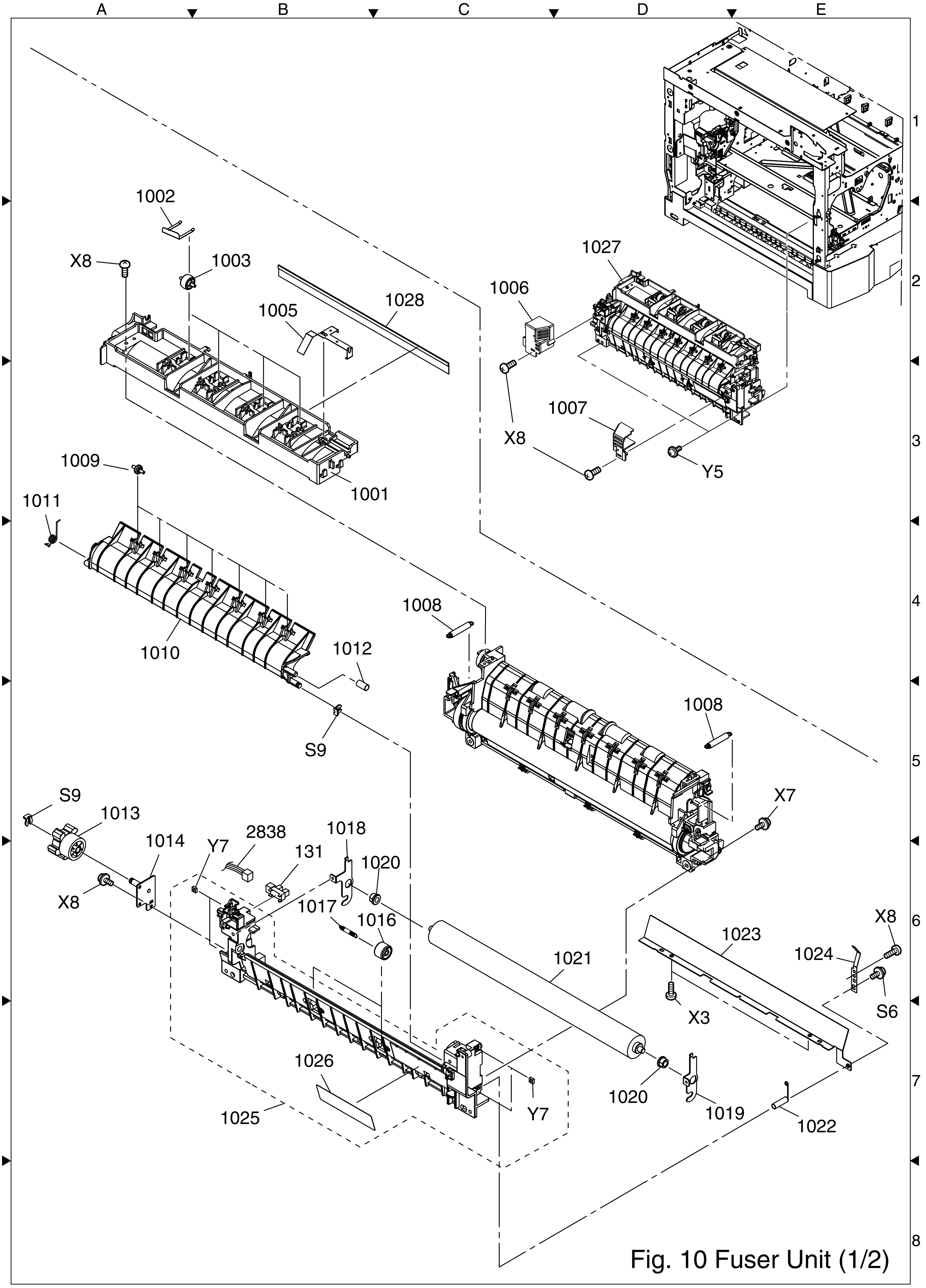
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Fig. 10 Fuser Unit (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1101	DZJE001194	Cover, Exit Roller	C		All
	1102	DZLF000706	Gear, Exit Roll	C		All
	1103	DZLM000052	Bushing, P6L5 Conductor	C		All
	1104	DZJN000088	Roller, Exit 2	C		All
	1105	DZJF000646	Guide, Fuser Roller	C		All
	1106	DZHC000168	Actuator	C		All
	1107	DZKQ000108	Spring, Actuator	C		All
	1108	DZJB000434	Base, Separator	C		All
	1109	DZJM001406	Separator	C	PM	All
⚠	1110	DZJB000429	Frame, Upper Fuser	C		All
	1111	DZJA001394	Plate, Rear Spring	C		All
	1112	DZLF000199	Gear, E39 Fuser Roller	C		All
	1113	DZPJ000004	Ring	C		All
	1114	DZLM000208	Bushing, Fuser Roller	C	PM	All
	1115	DZLA000418	Roller, Fuser	N	PM	All
⚠	1116	DZGN000052	Lamp, Fuser	C	PM	PU, PT, PUG
		DZGN000053				Other
	1117	DZJA001396	Plate, Terminal 1	C		All
⚠	1118	K5X216BG0002	Fuse, Thermal	C	See Note	All
	1119	DZJA001397	Plate, Terminal 2	C		All
⚠	1120	K0BDB0000080	Thermostat	N	See Note For DP-8020E/8020P*	All
		DZDX000003		C	See Note For DP-8016P	
	1121	DZJA001398	Plate, Terminal 3	C		All
	1122	DZJC000385	Holder, Rear Lamp	C		All
	1123	DZJC000386	Holder, Front Lamp	C		All
	1124	DZJA001393	Plate, Front Spring	C		All
	1125	DZBL000061	Assembly, Thermistor	C	PM	All
	1126	DZJE001195	Cover, Fuser Roller	C		All
	1127	FFPLN0005	Spring	C		All
	1128	DZKK000121	Actuator 2	C		All
	1009	DZLA000357	Roller, Idle 2	C		All
	1402	DZLL000005	Wheel, Star	C		All
	2838	DZFP001606	Harness, Thermistor 1	C		All
	S9	FFPFJ0033B	Snap Ring	C		All
		DZJM000171 or				
	X1	XTB3+10GFJ	Screw	C		All
	X3	XYN3+F8FJ	Screw	C		All
	X8	XTB3+8GFJ	Screw	C		All

Note:

This part is subject to the U.S. Export Administration Laws and Regulations for export or re-export to the countries specified below.

Countries subject to embargo are: **Cuba**, **Iran**, **Iraq**, **Libya**, **North Korea**, **Syria** and **Sudan**.

This list is subject to change without further notice.

Purchaser of those countries are requested to order the **Fuser Unit Assy** instead of this part.

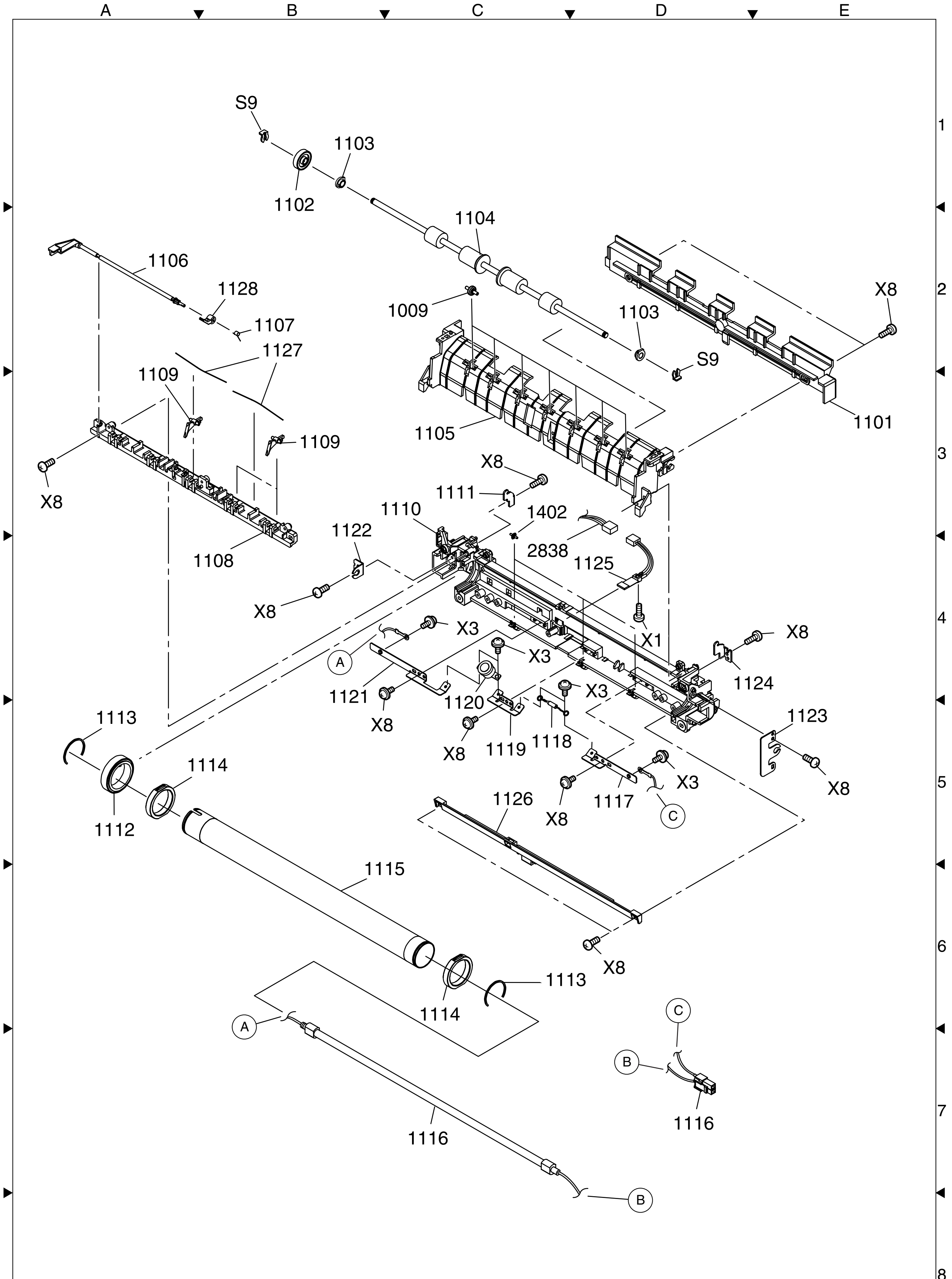
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Fig. 11 Fuser Unit (2/2)

5.10. Hopper Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1201	DZHP009894	Container, Toner Waste	C	PM	All
	1202	DZML000478	Tray, Spill	C		All
	1203	DZJB000422	Holder, Bottle	C		All
	1208	DZJE001308	Holder, Rear Bottle	N		PU, PUG
		DZJE001299				PK
		DZJE001180		C		Other
	1209	DZUJ000017	Cleaner, Bottle Shutter	C		All
	1212	DZJC000379	Guide, Bottle Shutter	C		All
	1213	DZJM001308	Film, Bottle Shutter	C		All
	1216	DQ-TUJ10K-PU	Assembly, Toner Bottle (Available as Sales Item)	N	PM	PU, PUG
		DQ-TUJ10K-PK				PK
		DQ-TU10J-PB		C		Other
	1217	PJZYF3184PU	Hopper Unit	N		PU, PUG
		PJZYF3184PK				PK
		DZJA001422		C		Other
	X6	XTB3+8JFJ	Screw	C		All
	X9	XTB3+8FFJ	Screw	C		All

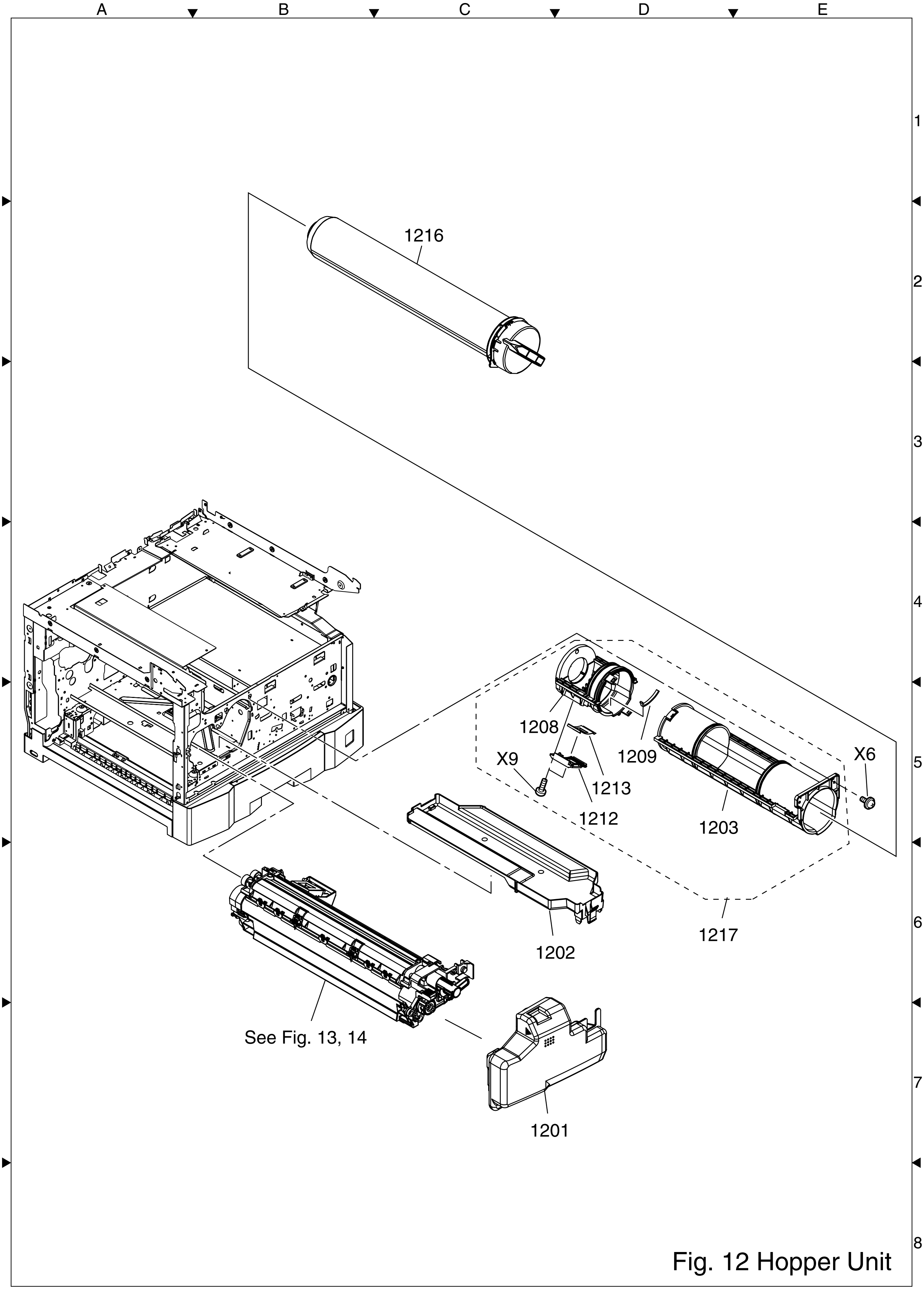
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Fig. 12 Hopper Unit

5.11. Developer Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1301	DZJN000086	Sheet, Toner Dispersion	C		All
	1302	DZJE001186	Cover, Developer	C		All
	1303	DZHE000058	Sponge, Developer	C		All
	1304	DZMH000029	Blade, Doctor	C		All
	1305	DZJE001181	Frame, Lower	C		All
	1306	DZGD000005	Roller, Magnetic	C		All
	1307	DZNE000117	Film, Paper Approach Guide	C		All
	1308	DZUJ000019	Seal, Frame	C		All
	1309	DZJM001309	Sheet, Toner	C		All
	1310	DZJA001376	Shield, Rear Side	C		All
	1311	DZJA001375	Shield, Front Side	C		All
	1312	DZJB000420	Frame, Developer	C		All
	1313	DZKN000401	Spring, Joint	C		All
	1315	DZJM001315	Slider	C		All
	1316	DZJA001380	Plate, Front Bias	C		All
	1317	DZLF000701	Coupling 1	C		All
	1318	DZJE001185	Cover, Gear	C		All
	1319	DZLF000702	Gear, Idle	C		All
	1320	DZKG000377	Shaft 1, Idle	C		All
	1321	DZLF000703	Gear 2, Idle	C		All
	1322	DZKG000378	Shaft 2, Idle	C		All
	1323	DZLM000157	Bearing, Screw	C		All
	1324	PJDGC0170Z	Gear 2, Screw 2	C		All
	1325	DZJL000394	Plate, Rear Bias	C		All
	1326	DZHA000225	Cover 2, Harness	C		All
	1327	DZLF000699	Gear, Screw 1	C		All
	1328	DZLM000194	Bearing, Paddle	C		All
	1329	DZUF000009	Screw 1	C		All
	1330	DZLF000700	Gear, Screw 2	C		All
	1331	DZUF000010	Screw 2	C		All
	1332	DZJL000215	Holder, TDC Sensor	C		All
	1333	DZJM001311	Film, Pipe	C		All
	1334	DZUJ000021	Seal, Pipe	C		All
	1335	DZJE001184	Cover, Pipe	C		All
	1336	DZLM000205	Bearing, PL Screw	C		All
	1337	DZUF000008	Screw, Supply	C		All
	1338	PJURC0055Z	Pipe, Support	C		All
	1339	DZJB000424	Frame, Pipe	C		All
	1340	DZLM000204	Bushing, Joint	C		All
	1341	DZLF000697	Gear, Pipe 15	C		All
	1342	DZLM000203	Bushing 2, Joint	C		All
	1343	DZKN000398	Spring, Coil	C		All
	1344	PJDIC0011Z	Joint, Screw	C		All
	1345	DZKG000376	Shaft, DR	C		All

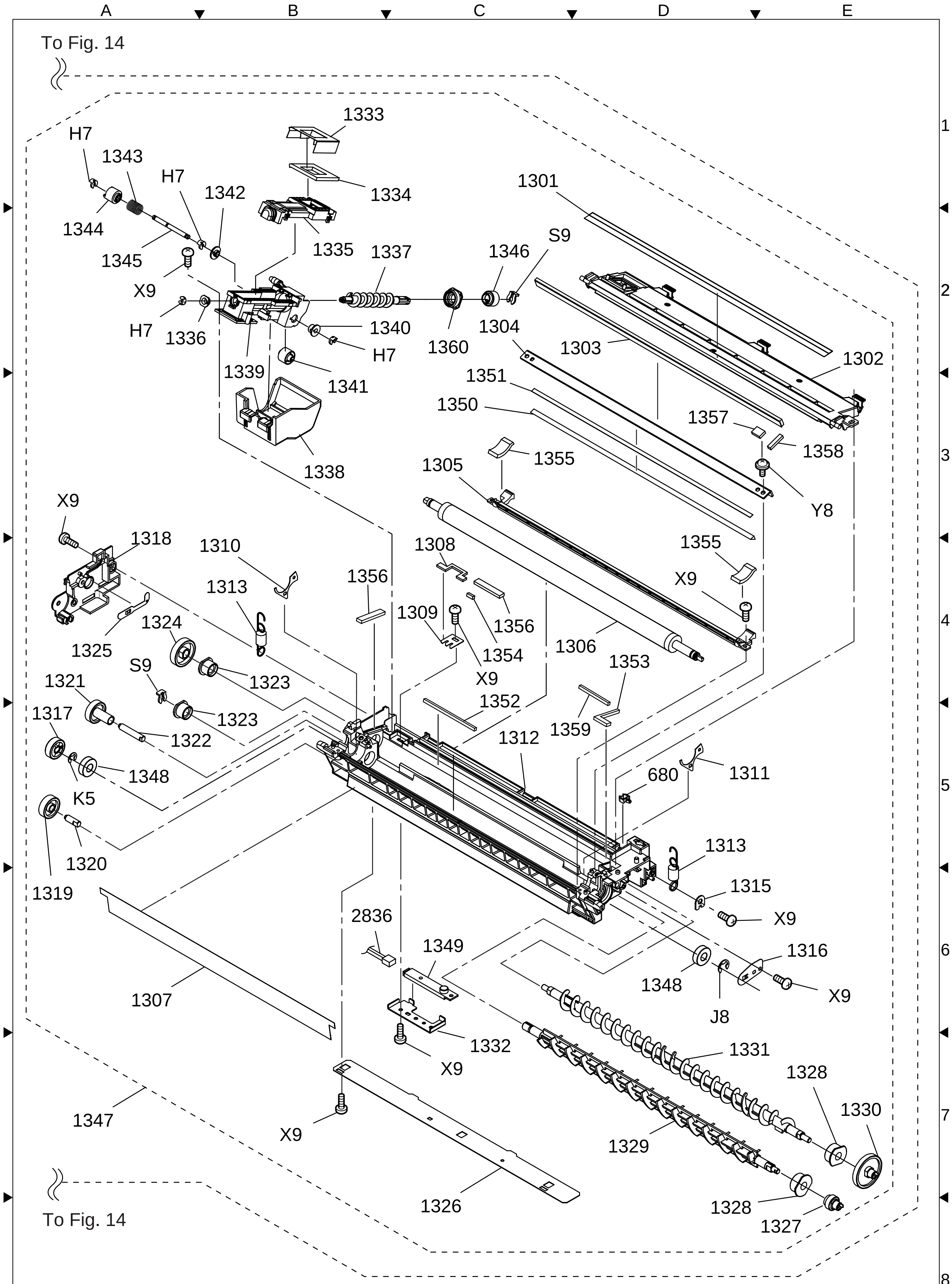
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Fig. 13 Developer Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1346	DZLF000698	Gear, Pipe 15T	C		All
	1347	DZHP009933	Developer Unit	C		All
	1348	DZLM000207	Bearing, Mag	C		All
	1349	L2DA00000126	Sensor, Toner	C		All
	1350	DZJC000395	Block	C		All
	1351	DZQJ000083	Tape, Block	C		All
	1352	DZHE000067	Sponge, Cover L	C		All
	1353	DZHE000068	Sponge, Cover Angle	C		All
	1354	DZHE000069	Sponge, Cover S	C		All
	1355	DZHE000071	Seal, Developer Side	C		All
	1356	DZHE000072	Sponge, Developer Side	C		All
	1357	DZHE000073	Sponge, Doctor Blade Side A	C		All
	1358	DZHE000074	Sponge, Doctor Blade Side B	C		All
	1359	DZHE000070	Sponge, Cover M	C		All
	1360	PJZYF212500	Bushing Screw Assy	C		All
	680	DZJK000004	Clamp	C		All
	2836	DZFP001604	Harness, Toner Sensor	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	J8	XUC7VM	E-Ring	C		All
	K5	XUC5VM	E-Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	X9	XTB3+8FFJ	Screw	C		All
	Y8	XTN3+10GFJ	Screw	C		All

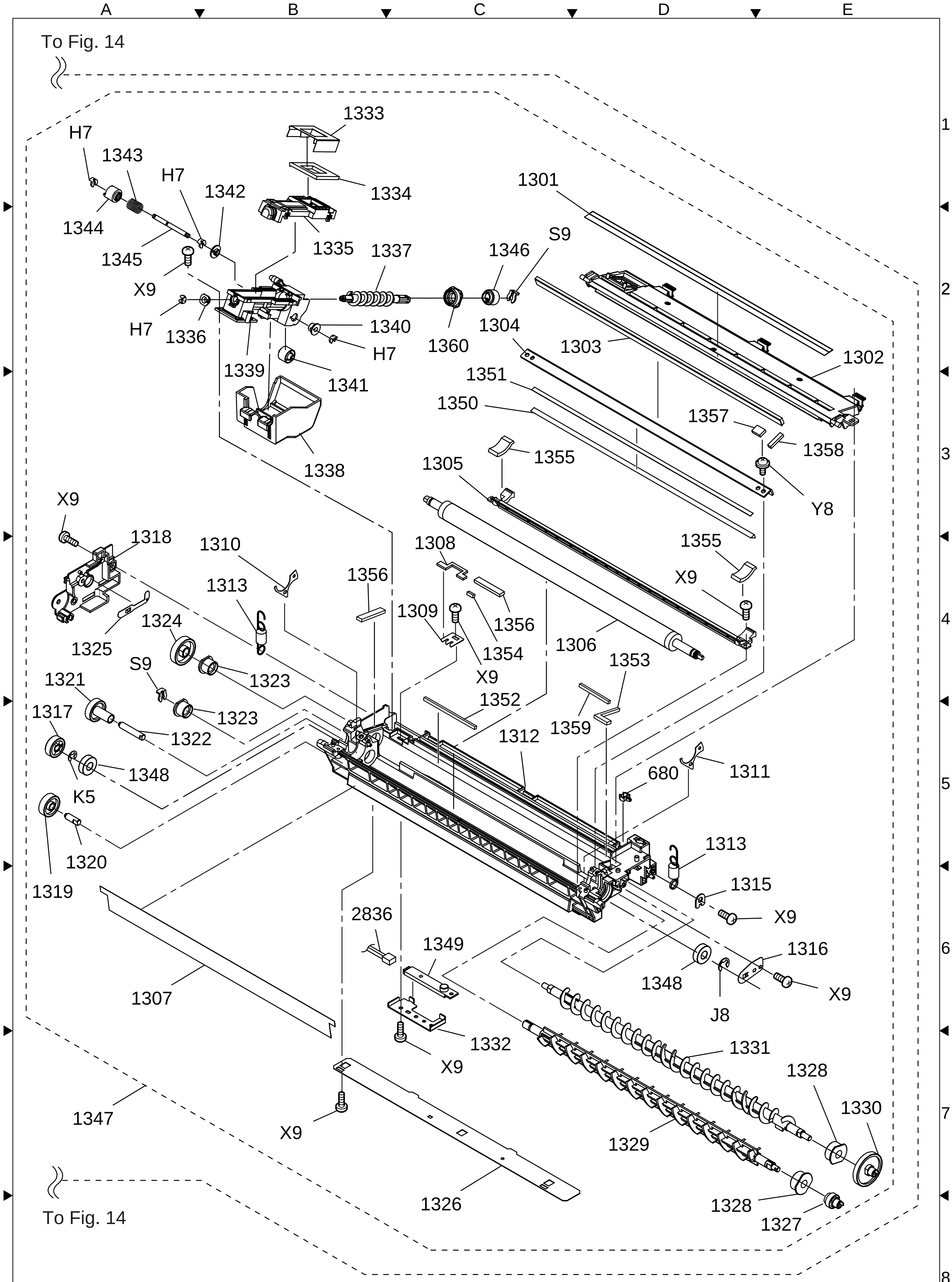
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Fig. 13 Developer Unit

5.12. Drum Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1401	DZHD000040	Sheet, Radiation	C		All
	1402	DZLL000005	Wheel, Star	C		All
	1403	DQ-H60J-PU	Drum, OPC	C	PM (Available as Sales Item)	All
	1404	DZJM001314	Bushing, OPC	C		All
	1405	DZJL000362	Plate, Nut	C		All
	1407	DZJM001330	Holder, OPC Drum Shaft	C		All
	1408	DZJN000085	Blade, Cleaning	C	PM	All
	1409	DZJM001313	Roller, Spacer	C		All
	1410	DZJP000063	Felt, Front Cleaning	C	PM	All
	1411	DZJP000064	Felt, Rear Cleaning	C	PM	All
	1412	DZJM001325	Sponge, Cleaning	C	PM	All
	1413	DZJM001328	Sponge, Long Cleaning	C		All
	1414	DZJM001329	Sponge, Short Cleaning	C		All
	1415	DZJM001324	Sheet, Splash Prevention	C	PM	All
	1416	DZJM001333	Film, PDL	C		All
	1417	DZJM001332	PDL, WTB	C		All
	1418	DZLM000211	Bushing, Screw	C		All
	1419	DZLF000731	Gear, PDL Joint	C		All
	1420	DZJM001326	Screw, WT	C		All
	1421	DZPA000075	Screw, Drum Unit Fix	C		All
	1422	DZJM001331	Cap, WT	C		All
	1424	DZJM000377	Sponge, Cap	C		All
	1425	DZKN000178	Spring, Cap	C		All
	1426	DZJM001327	Pipe, WTB	C		All
	1427	DZJM001341	Handle, Cleaning Lever	C		All
	1428	DZJM001339	Lever, Cleaning	C		All
	1429	DZJL000403	Guide, Lever	C		All
	1430	DZJM001342	Sponge, Charge	C		All
	1431	DZJM001373	Holder, Charge	C		All
	1432	DZHA000226	Cover, Charge	C		All
	1433	DZJL000400	Grid, Charge	C		All
	1434	DZHC000169	Sheet, Blind	C		All
	1435	DZKN000415	Spring, Charge	C		All
	1436	DZJL000402	Holder, Charge Wire	C		All
	1437	DZJM001372	Holder, Rear Charge	C		All
	1438	DZHA000227	Cover, Rear Charge	C		All
	1439	DZJM001337	Base, Charge Cleaning	C		All
	1440	DZJM001340	Pad, Cleaning	C		All
	1441	DZJM001338	Base, Pad	C		All
	1442	PJUAC0215Y	Frame, OPC	C		All
	1443	DZJL000401	Wire, Charge	C	PM	All
	1444	DZJL000399	Case, Charge	C		All
	1445	DZJL000398	Shaft, OPC	C		All

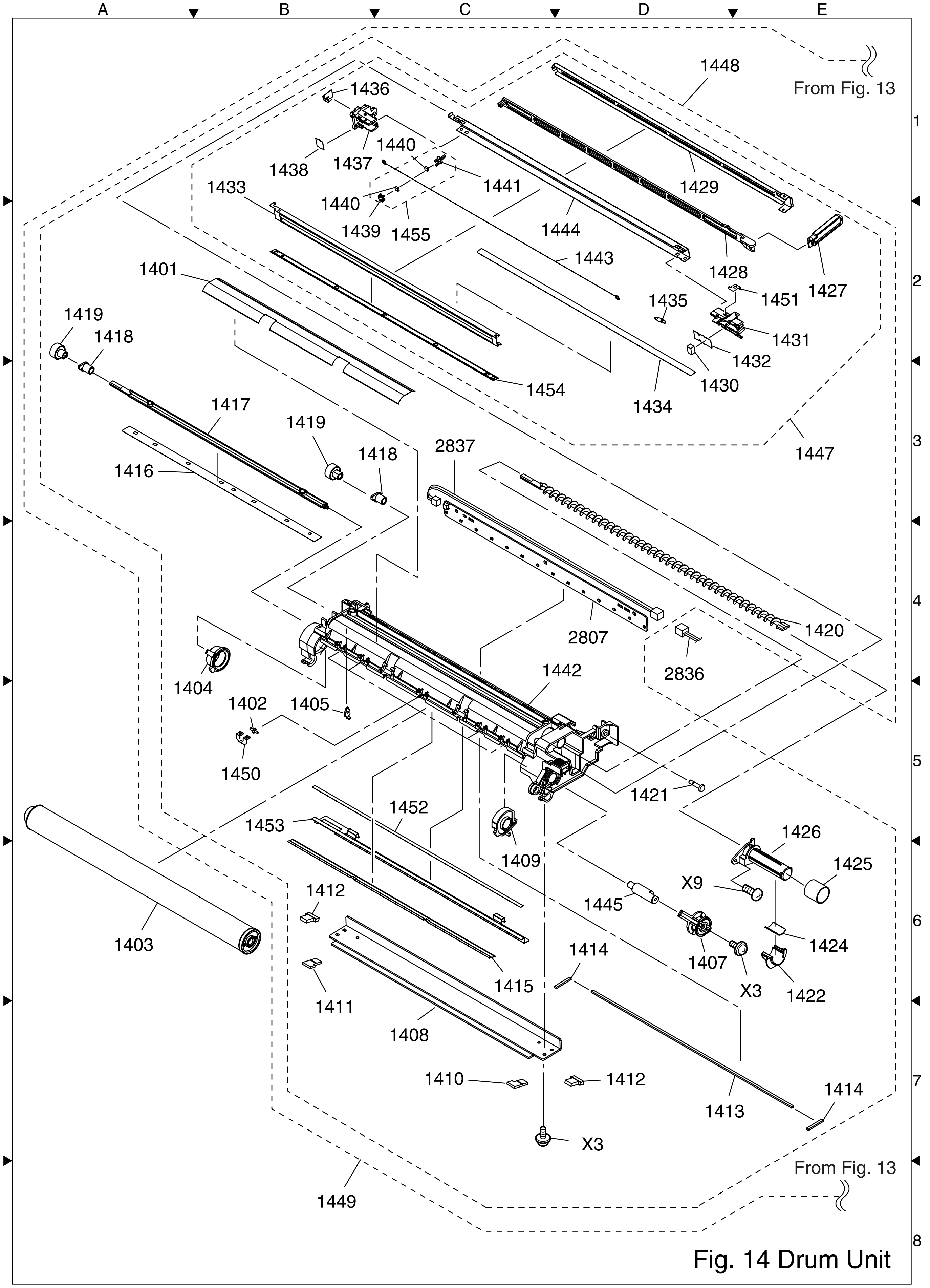
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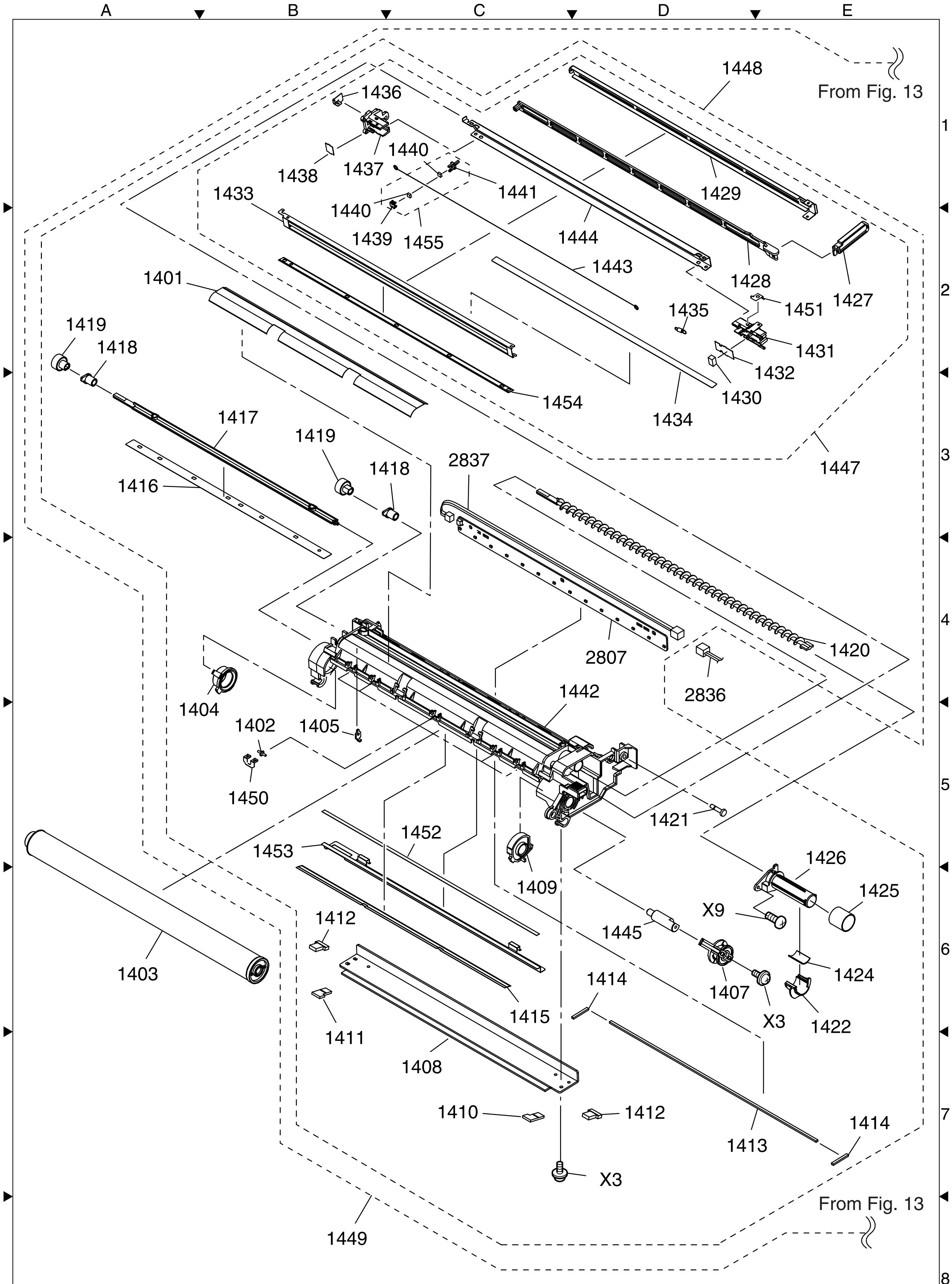
Fig. 14 Drum Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1447	PJZYF212D00	Assembly, Charge Corona	C		All
	1448	PJZYF212F00	Assembly, OPC Frame	C		All
	1449	PJZYF212E00	Assembly, Process Unit	C		All
	1450	DZKP000225	Plate, Star Wheel	C		All
	1451	DZKP000389	Plate, Ground	C		All
	1452	DZHC000173	Sheet	C		All
	1453	DZHC000172	Plate	C		All
	1454	DZJM001375	Film, Charge Side	C		All
	1455	PJZYF212CAZ	Assembly, Cleaning Pad	C		All
	2807	DZEC102830R	PC Board, PCL	C		All
	2836	DZFP001604	Harness, Toner Sensor	C		All
	2837	DZFP001605	Harness, PCL PCB	C		All
	X3	XYN3+F8FJ	Screw	C		All
	X9	XTB3+8FFJ	Screw	C		All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From Fig. 13

Fig. 14 Drum Unit

5.13. Drive Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1501	DZJA001413	Frame A, Bottle Drive	C		All
	1502	DZJA001414	Frame B, Bottle Drive	C		All
⚠	1503	PJWQF2121PB	Assembly, Bottle Motor	C		All
	1504	DZKP000384	Plate 2, Ground	C		All
	1505	DZLF000736	Gear, Toner Sensor	C		All
	1506	DZLF000739	Gear 3, Toner Idle	C		All
	1507	DZLF000737	Gear 1, Toner Idle	C		All
	1508	DZLF000735	Gear, Toner Drive	C		All
	1509	DZKN000413	Spring, Toner	C		All
	1510	DZLF000738	Gear 2, Toner Idle	C		All
⚠	1511	DNQ18AS14W26	Motor, Drive	C		All
⚠	1512	DZGB000045	Solenoid	C	For DP-8020E	All
	1513	DZLK000043	Belt 1, Timing	C		All
	1514	DZJA001395	Frame A, Main Drive	C		All
	1515	DZJA001399	Frame B, Main Drive	C		All
	1516	DZJA001401	Cover B, Main Drive	C		All
	1517	DZLF000716	Gear, Fuser Drive	C		All
	1518	DZHP009912	Assembly, Fuser Drive Plate	C		All
	1519	DZLF000718	Gear, Waste Toner Drive	C		All
	1520	DZLF000724	Gear 1, Waste Toner Idle	C		All
	1521	DZLF000719	Gear 2, Waste Toner Idle	C		All
	1522	DZLF000717	Gear 2, Fuser Idle	C		All
	1523	DZLF000721	Gear 3, Fuser Idle	C		All
	1524	DZLF000715	Gear 3, MG	C		All
	1525	DZLF000722	Gear 4, Fuser Idle	C		All
	1526	DZLF000720	Gear 1, Registration Idle	C		All
	1527	DZLF000723	Gear 2, Registration Idle	C		All
	1528	DZLF000713	Gear 3, Drum	C		All
	1529	DZLF000707	Gear 2, Drum	C		All
	1530	DZLF000714	Gear 2, Mag	C		All
	1531	DZLN000022	Coupling, Mag	C		All
	1532	DZKN000406	Spring, Mag Drive	C		All
	1533	DZKG000382	Shaft, Mag Drive	C		All
	1534	DZLF000709	Gear 1, Mag	C		All
	1535	DZLN000007	Joint, OPC	C		All
	1536	DZKN000405	Spring, OPC Drive	C		All
	1537	DZKG000381	Shaft, Drum Drive	C		All
	1538	DZLF000708	Gear 1, Drum	C		All
	1539	DZTY000312	Assembly, Bottle Drive	C		All
	1540	DZTY000311	Assembly, Main Drive	C		All

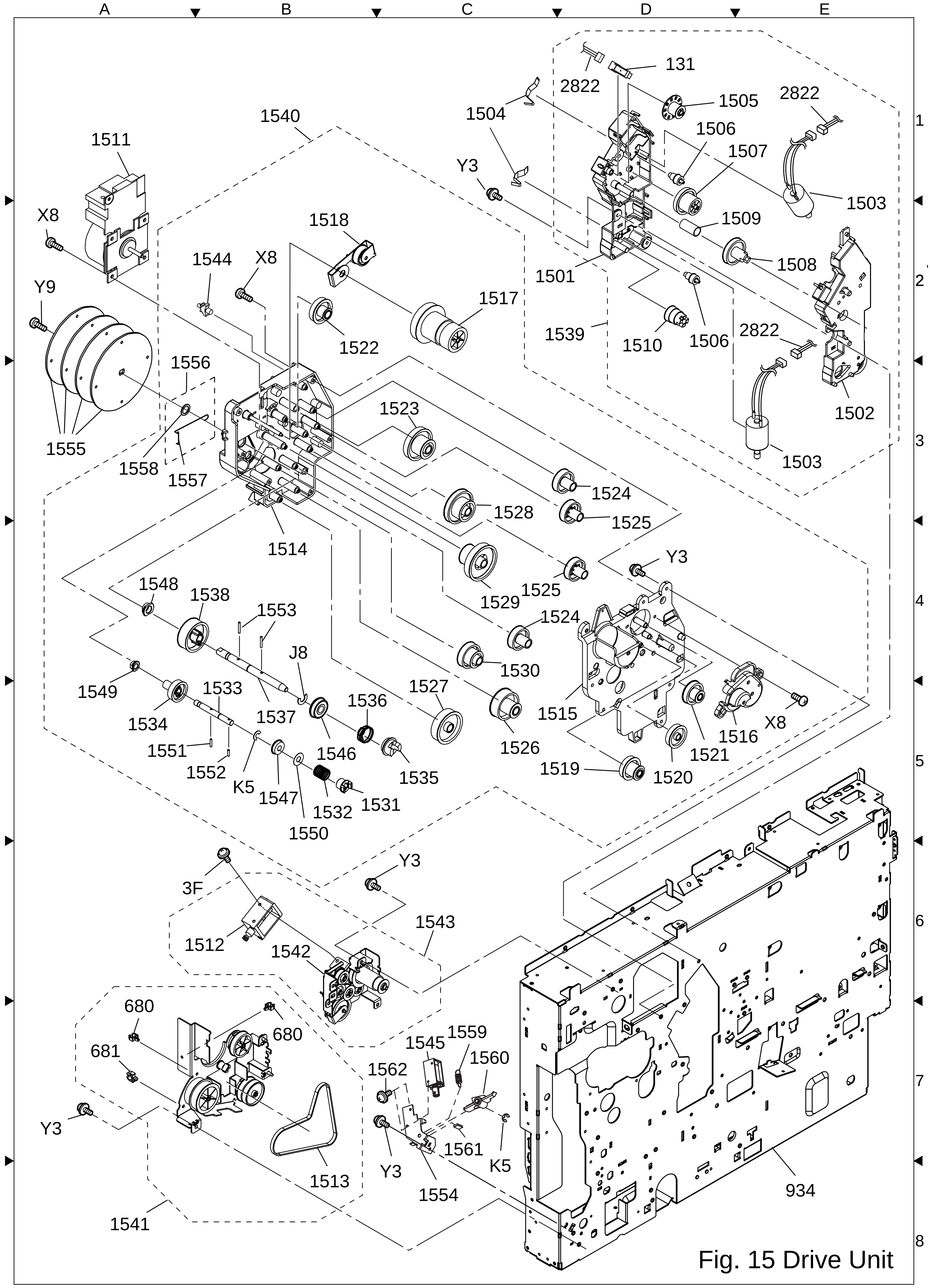
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Fig. 15 Drive Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1541	DZTY000314	Assembly, Feed Drive	C		All
	1542	DZTY000315	Assembly, Exit Drive A	C	For DP-8020P*/8016P	All
		DZTY000317			For DP-8020E	All
	1543	DZTY000316	Assembly, Exit Drive B	C	For DP-8020E	All
	1544	SPM-3	Spacer	C		All
⚠	1545	L9AAABFB0001	Solenoid	N		All
	1546	DZLM000209	Bearing 1	C		All
	1547	DZLM000210	Bearing 2	C		All
	1548	DZLM000216	Bearing 3	C		All
	1549	DZLM000217	Bearing 4	C		All
	1550	DZPK000032	Polyslider	C		All
	1551	DZTT000614	Pin 1	C		All
	1552	DZTT000718	Pin 2	C		All
	1553	XPJ2D14WV	Pin 3	C		All
	1554	PJUIC0310Z	Bracket, Solenoid	N		All
	1555	DZJG000013	Fly Wheel	C		All
	1556	PJZEF2121PU	Ground Spring Kit	C		All
	1557	PJSDC0005Z	Drive, Ground Spring	C		All
	1558	FFPMV0001	Polyslider Washer	C		All
	1559	PJBVC0150Z	Spring, Arm	N		All
	1560	PJBLC0026Z	Arm	N		All
	1561	PJCGC0003Z	Solenoid, Damper	N		All
	1562	XYN26+F4FJ	Screw	N		All
	131	DZAL000211	Sensor, Photo	C		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	934	DZJB000421	Frame, Center	C		All
	2822	DZFP001603	Harness, BSMT	C		All
	3F	XYN3+F5FJ	Screw	C		All
	J8	XUC7VM	E-Ring	C		All
	K5	XUC5VM	E-Ring	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All
	Y9	XYN4+F8FJ	Screw	C		All

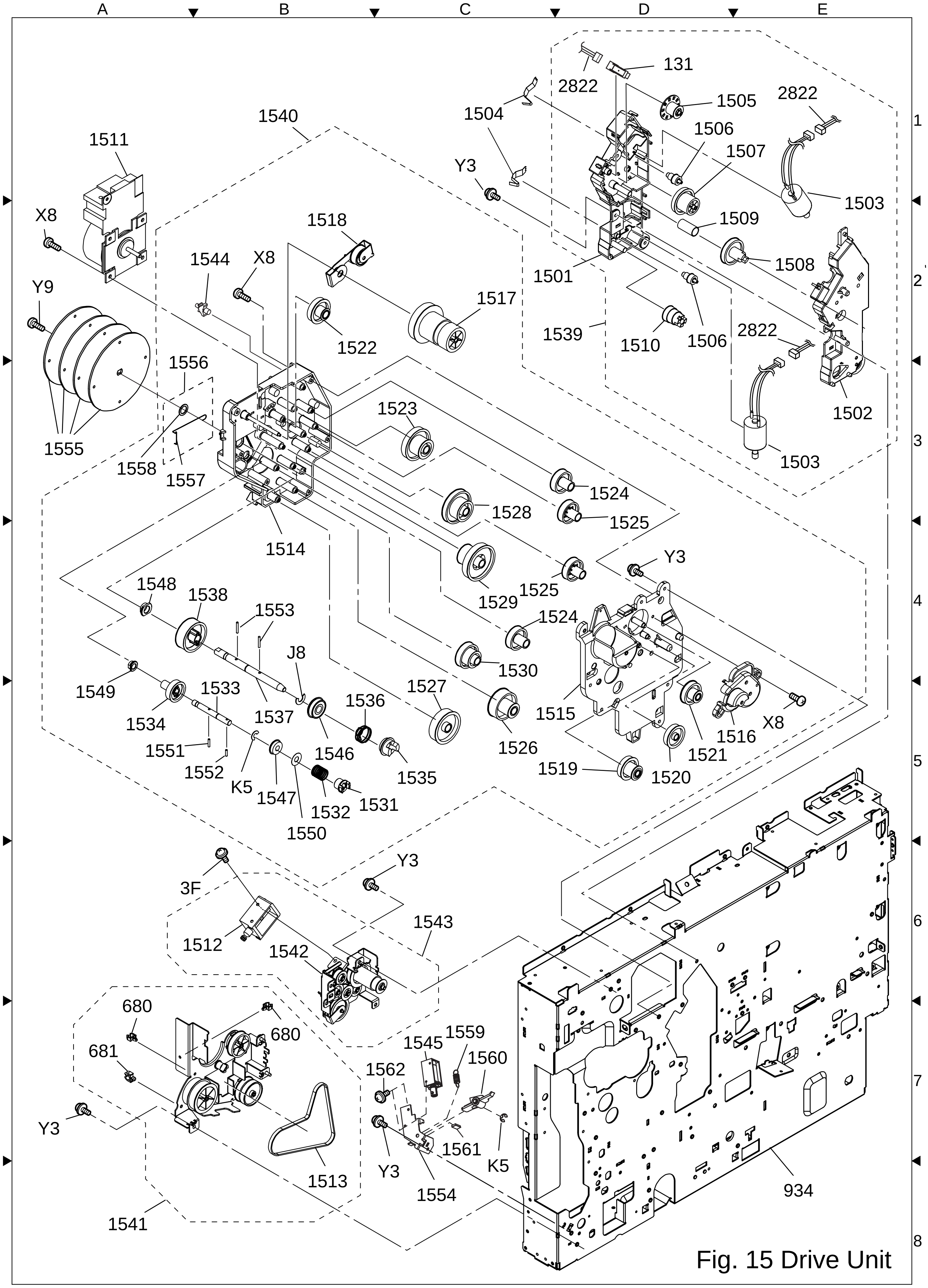
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Fig. 15 Drive Unit

5.14. Paper Tray

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1601	DZMC000829	Cover, Sub Tray	C	For 1st Paper Tray	All
		DZMC000828			For Other Paper Tray	All
	1602	DZML000480	Cover, Paper Tray	C	For 1st Paper Tray	All
		DZML000487			For Other Paper Tray	All
	1603	DZML000479	Base, Paper Tray	C		All
	1604	DZML000484	Lever, Guide	C		All
	1605	DZML000481	Guide, Front	C		All
	1606	DZML000482	Guide, Rear	C		All
	1607	DZJF000414	Guide, E	C		All
	1609	DZLA000356	Roller, Paper Tray	C		All
	1610	DZML000483	Plate, Bottom	C		All
	1611	DZLF000465	Gear, Tray	C		All
	1613	DZJL000414	Plate, Lift	C		All
	1616	DZKG000420	Assembly, Arm Shaft	C		All
	1617	DZJM001369	Film, Paper Guide	C		All
	1619	PJRCC0004Z	Label, Sensor	C		All
	1620	DZJP000005	Plate, Pad Pressure	C		All
	S9	FFPFJ0033B	Snap Ring	C		All
	X3	XYN3+F8FJ	Screw	C		All
	Y1	XTW3+8PFJ	Screw	C		All

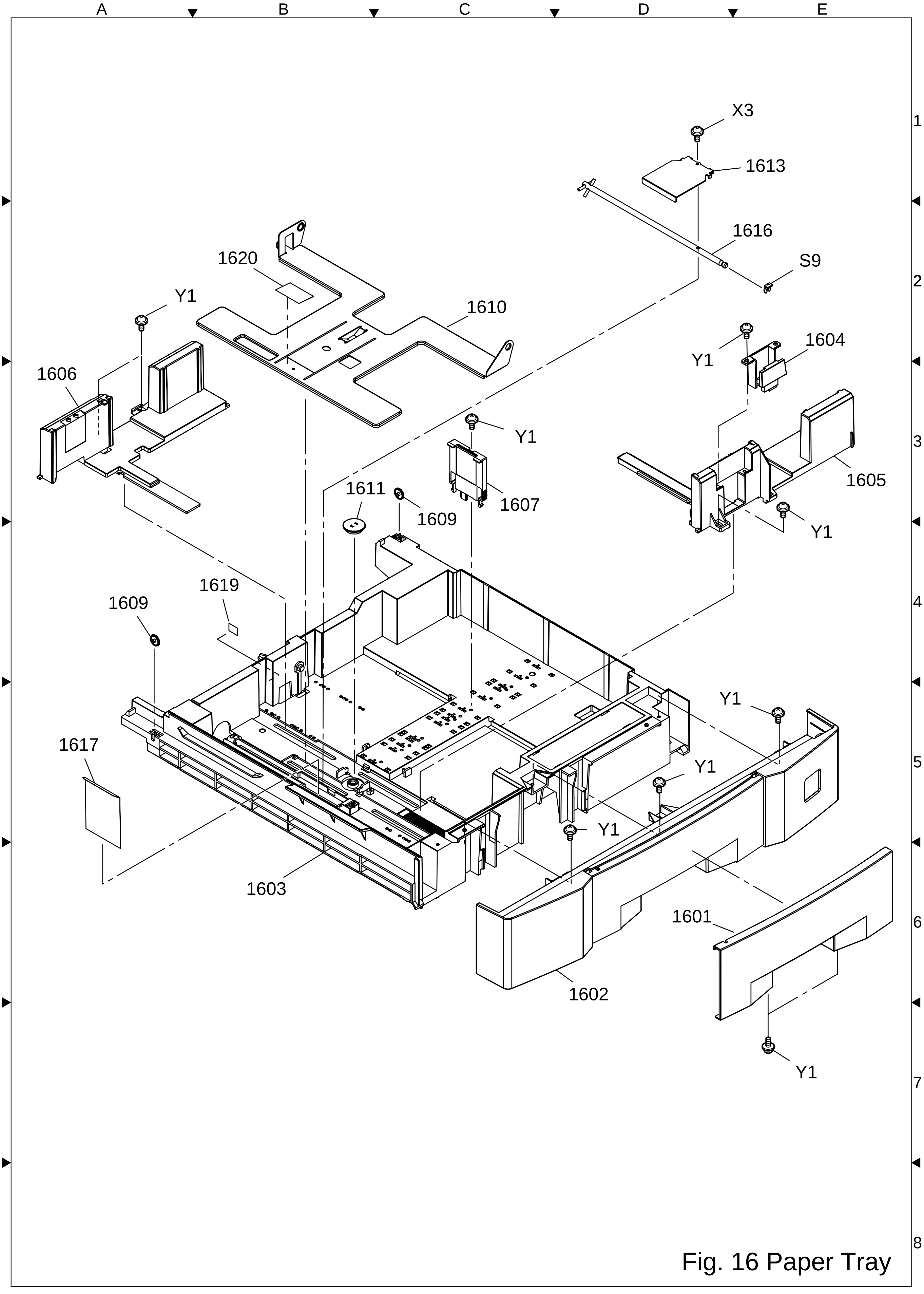
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Fig. 16 Paper Tray

5.15. Automatic Document Feeder

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1701	DZMA003293	Cover, ADF Rear	C		All
	1702	DZMA003291	Cover, ADF Front	C		All
	1703	DZJA000852	Bracket, Substrate	C		All
	1704	DZKN000271	Spring, White Rear	C		All
	1705	DZJM000670	Base, ADF	C		All
	1706	DZML000422	Tray, Original Lower	C		All
	1707	DZKR000032	Spring, Ground	C		All
	1708	DZML000507	Tray, Original Front	C		All
	1709	DZHC000057	Actuator, Original Length	C		All
	1710	DZLF000077	F Gear, D14	C		All
	1711	DZML000499	Guide, Original Front	C		All
	1712	DZML000432	Tray, Original Upper	C		PU,PUG
		DZML000433				Other
		DZML000504				PK
	1713	DZJM000676	Actuator, Original Width	C		All
	1714	DZML000500	Guide, Original Rear	C		All
	1716	DZKQ000071	Spring, Original Length	C		All
	1717	DZJM001241	Spacer	C		All
	1719	DZGT000007	Brush, Antistatic	C		All
	131	DZAL000211	Sensor, Photo	C		All
	430	DZJK000046	Clamp	C		All
	2832	DZEC102304R	PC Board, SNS	C		All
	2846	DZEC102303R	PC Board, ADF	C	RTL/PbF	All
	2851	DZFP001968	Harness, ADF SNS	C		All
	X6	XTB3+8JFJ	Screw	C		All
	62	XTB3+6JFJ	Screw	C		All
	B1	DZPB000007	Screw, Silver	C		All
	S9	FFPFJ0033B	Snap Ring	C		All
		DZJM000171 or				

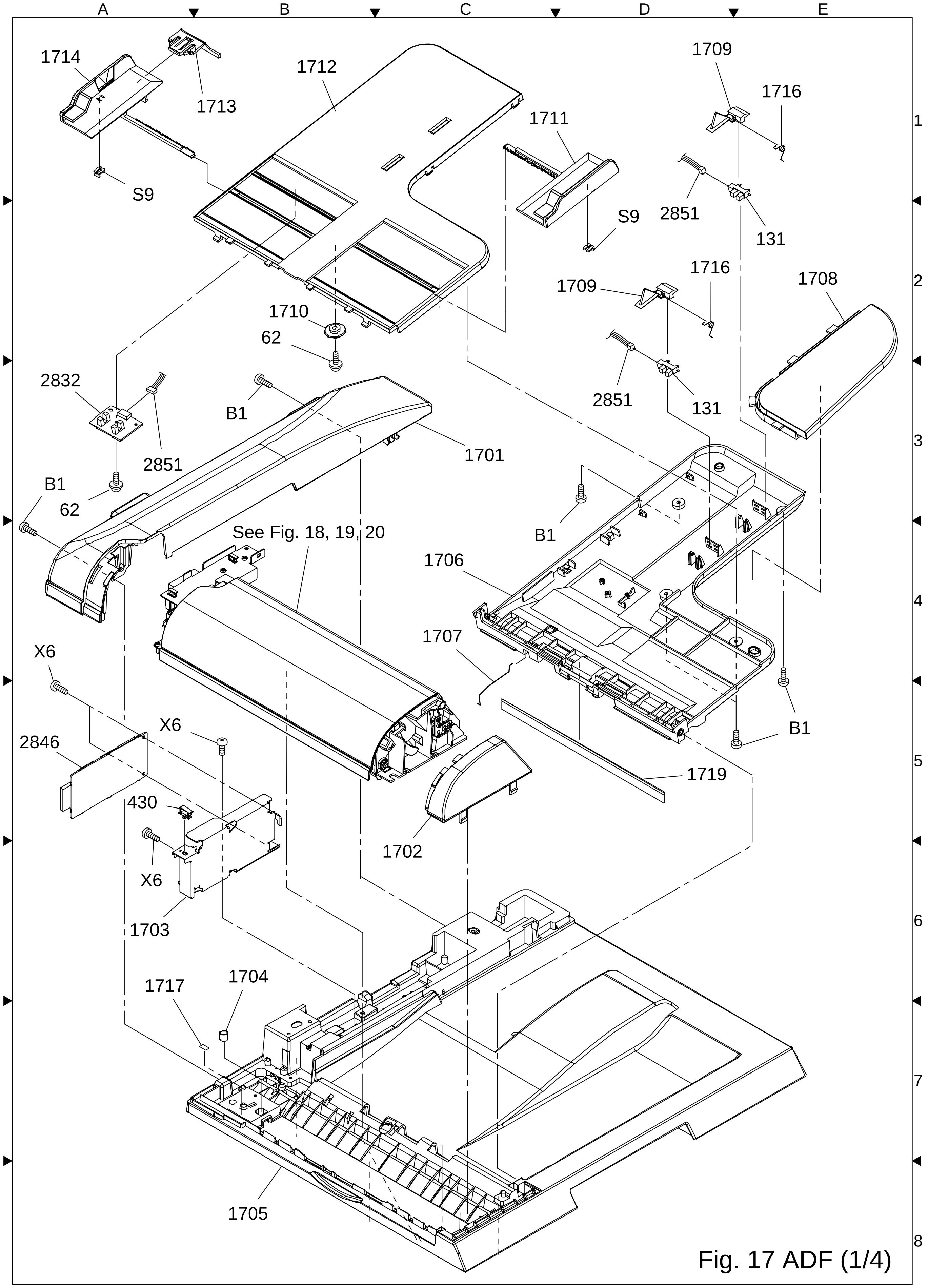
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Fig. 17 ADF (1/4)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1801	DZJA000858	Plate, Angle	C		All
	1802	DZJA000853	Bracket, Left Hinge	C		All
	1803	DZKG000152	Shaft, Left Hinge	C		All
	1804	DZJM000679	Base, Left Hinge	C		All
	1805	DZKN000270	Spring, Lower Left Hinge	C		All
	1806	DZJM000680	Guide, Left Spring	C		All
	1807	DZJM000690	Holder, Left Spring	C		All
	1808	DZKN000269	Spring, Upper Left Hinge	C		All
	1809	DZJM000681	Holder, Upper Left Spring	C		All
	1810	DZKN000268	Spring, White Front	C		All
	1811	DZJM000677	Holder, Stamp	C	For DP-8020E/8020P*	All
	1812	DZLA000258	Roller, Exit 1	C		All
	1813	DZLM000072	Bushing, P6L8	C		All
	1814	DZJM000692	Sheet, White	C		All
	1815	DZJA000850	Guide, White	C		All
	1816	DZJA000855	Bracket, Hinge Right	C		All
	1817	DZKG000154	Shaft, Hinge Right	C		All
	1818	DZJM000684	Base, Hinge Right	C		All
	1819	DZJM000688	Guide, Spring Right	C		All
	1820	DZKN000273	Spring, Hinge Right	C		All
	1821	DZJA000856	Plate, Hinge Right	C		All
	1822	PJZEF21200PU	Scanning Pad	C		All
	1823	DZQJ000022	Hook and Loop Fastener Tape (Loop Side)	C		All
⚠	1824	L9AAAABA0002	Solenoid, Stamp	C	For DP-8020E/8020P*	All
	1825	DZJM000926	Film, Lower	C		All
	1826	DZJM000927	Film, Upper	C		All
	1827	DZHT000027	Stamp Head	C	For DP-8020E/8020P*	AUR
		DZHT000004				Other
	1828	DZJM001358	Sheet, Protection	C		All
	1829	DZHP000237	Assembly, Stamp	C	For DP-8020E/8020P*	AUR
		DZHP000240				Other
	1830	DZHP005513	Unit, Stamp	C	For DP-8020E/8020P*	All
	1704	DZKN000271	Spring, White Rear	C		All
	1717	DZJM001241	Spacer	C		All
	2125	DZHP001664	Base, Stamp	C	For DP-8020E/8020P*	All
	2852	DZFP001967	Harness, Stamp	C	For DP-8020E/8020P*	All
	X6	XTB3+8JFJ	Screw	C		All
	1N	XTB4+8JFJ	Screw	C		All
	J7	XUC4VM	E-Ring	C		All
	6A	XTB3+12GFJ	Screw	C		All
	B1	DZPB000007	Screw, Silver	C		All

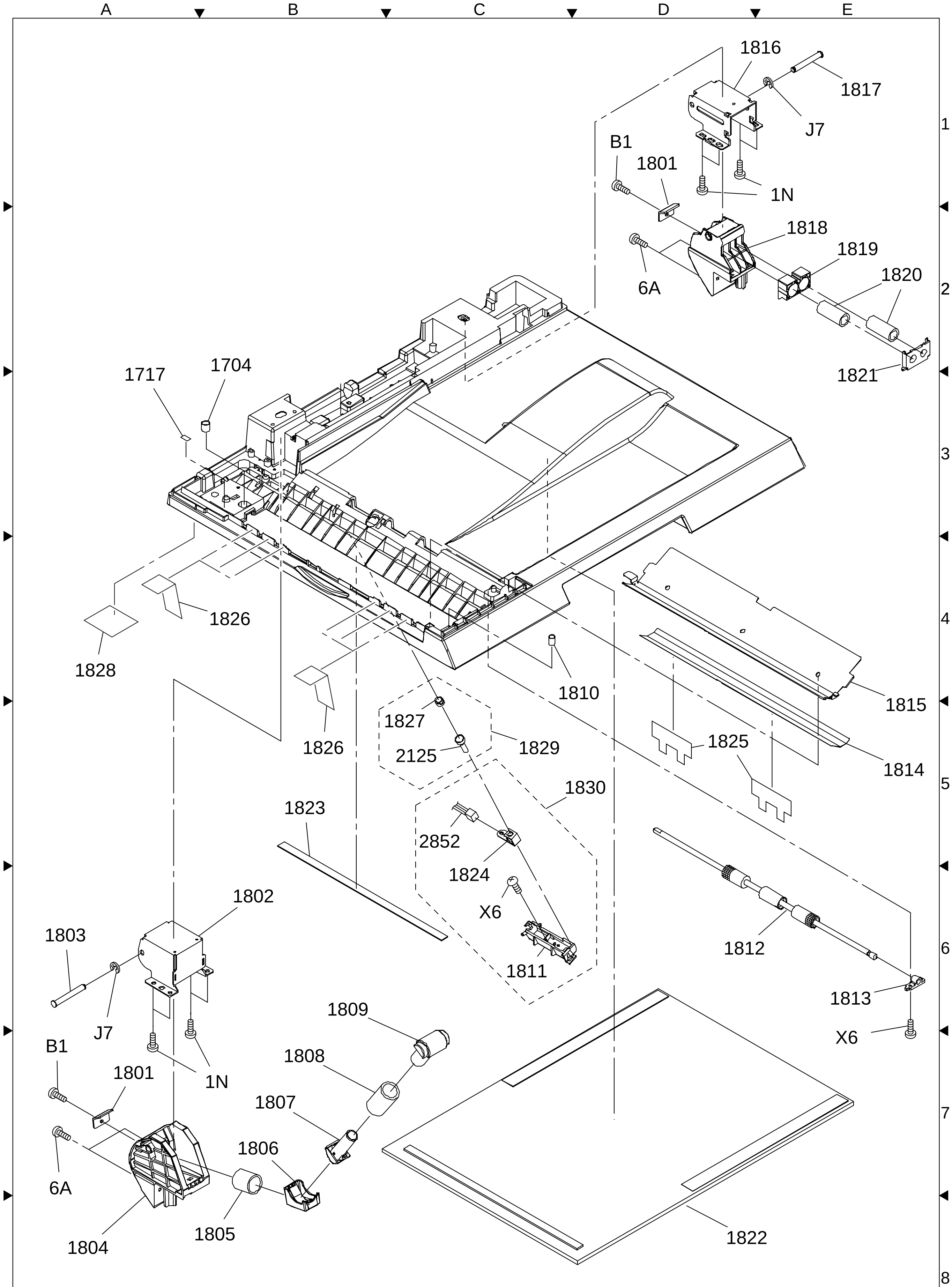
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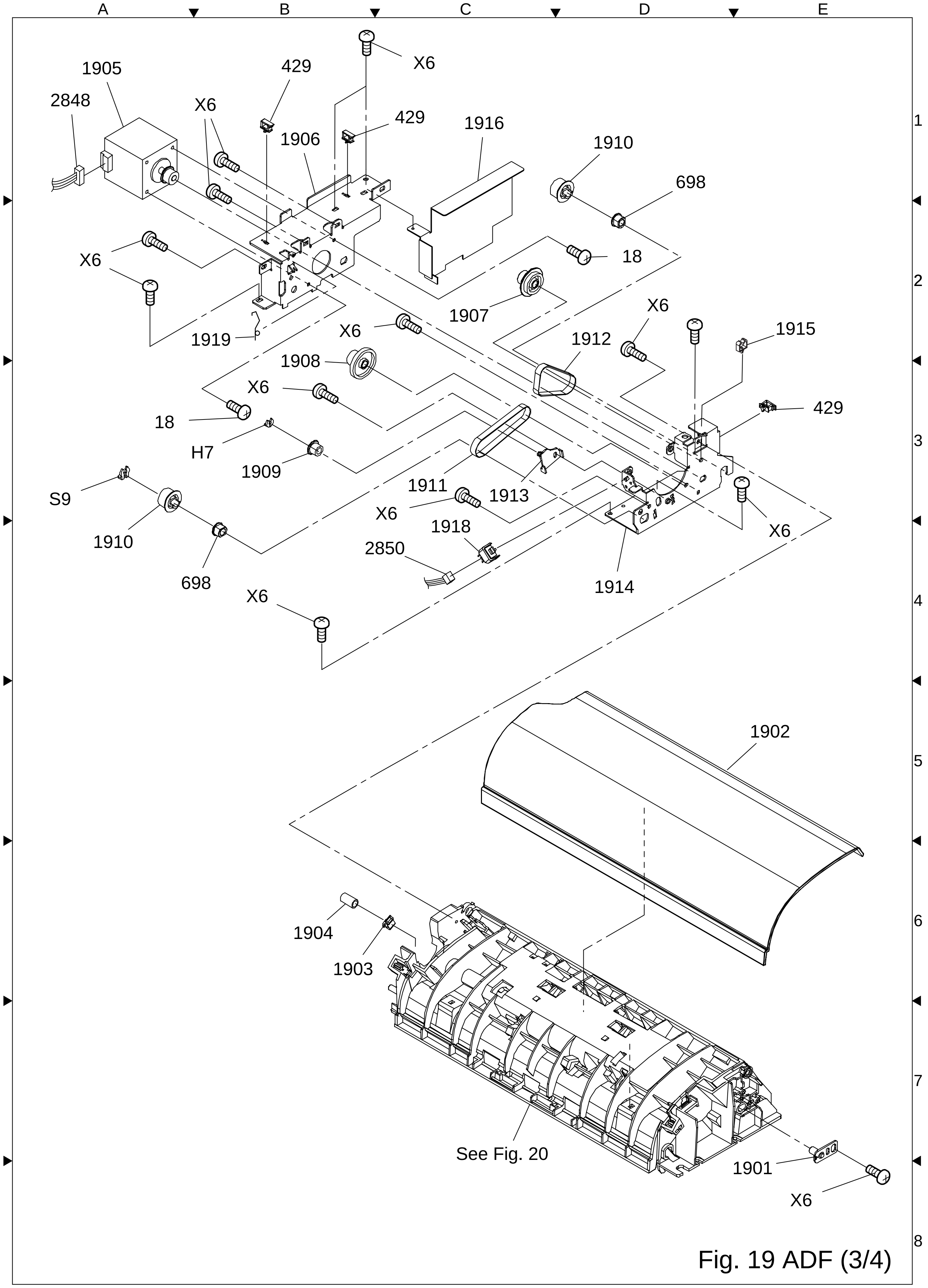
Fig. 18 ADF (2/4)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1901	DZJA000854	Bracket, Adjust	C		All
	1902	DZMA003295	Cover, ADF	C		All
	1903	FFPLK0381B	Latch	C		All
	1904	DZKN000267	Spring, Latch	C		All
⚠	1905	L6HBHHGC0011	Motor, ADF	C		All
	1906	DZJA000849	Bracket, Motor	C		All
	1907	DZLF000453	F Gear, E20S20	C		All
	1908	DZLF000454	F Gear, E28S22	C		All
	1909	DZLF000315	F Gear, E16	C		All
	1910	DZLF000452	Pulley, S27	C		All
	1911	DZLK000029	Belt, Drive 1	C		All
	1912	DZLK000023	Belt, Drive 2	C		All
	1913	DZJA000851	Bracket, Pulley	C		All
	1914	DZJA000848	Bracket, Right	C		All
	1915	DZJK000018	Clamp	C		All
	1916	DZJA001190	Cover, ADF PC Board	C		All
	1918	DZCF000022	Switch, Cover Open	C		All
	1919	DZKQ000073	Spring, Ground	C		All
	429	DZJK000045	Clamp	C		All
	698	FFPMQ0649	Bushing	C		All
	2848	DZFP001964	Harness, ADF Motor	C		All
	2850	DZFP001966	Harness, Open Switch	C		All
	18	XYN3+F6FJ	Screw	C		All
	X6	XTB3+8JFJ	Screw	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All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X6
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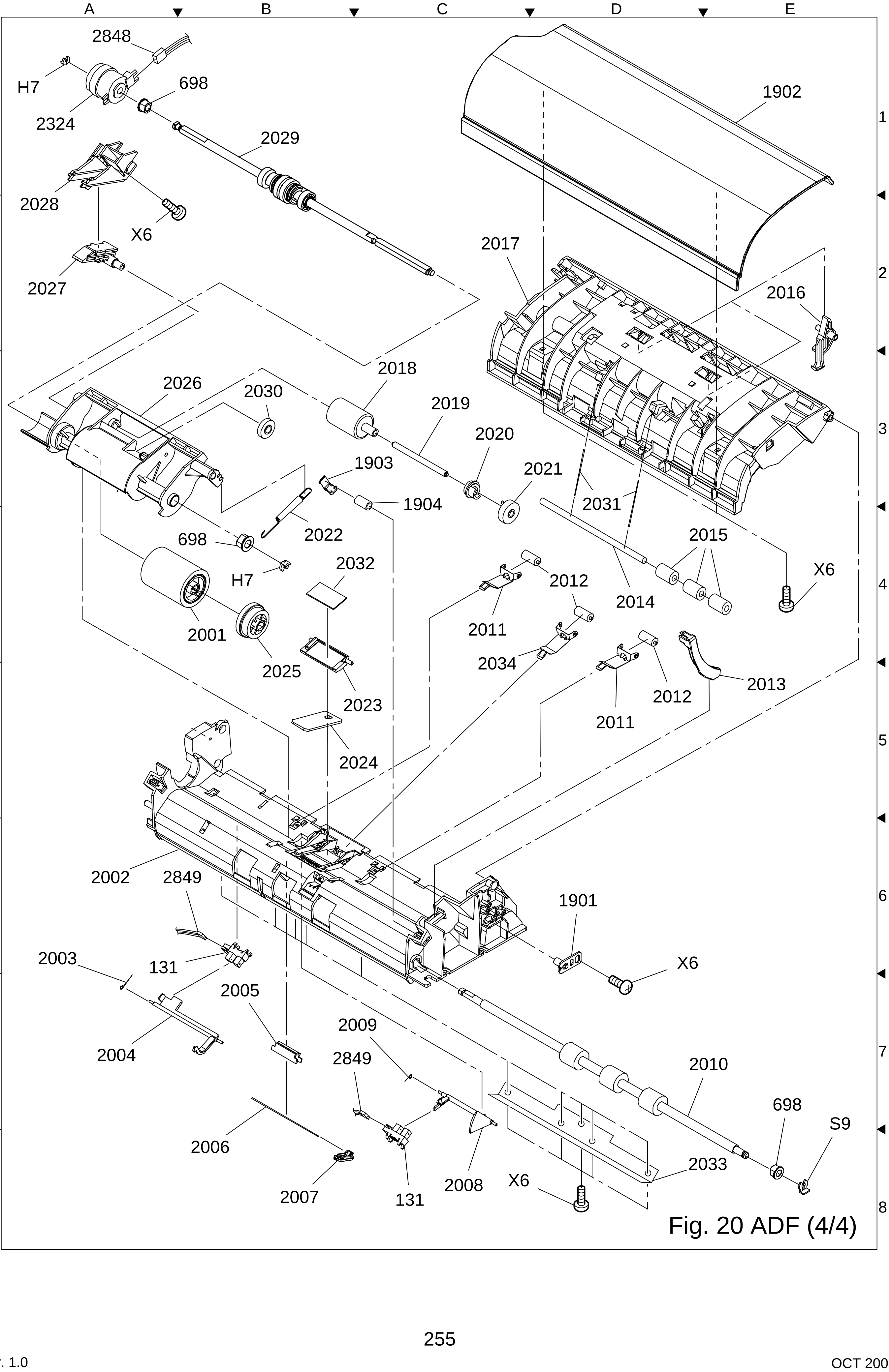
See Fig. 20
1901

Fig. 19 ADF (3/4)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2001	DZLA000216	Roller, Paper Feed	C	PM	All
	2002	DZJM000672	Guide, Lower Paper Feed	C		All
	2003	DZKQ000070	Spring, Timing	C		All
	2004	DZJM000674	Actuator, Timing	C		All
	2005	DZJM000013	Plate, Pressure	C		All
	2006	DZKR000004	Spring, Pressure Plate	C		All
	2007	DZJM000678	Lever, Pressure Adjustment	C		All
	2008	DZJM000675	Actuator, NP	C		All
	2009	DZKQ000074	Spring, NP Actuator	C		All
	2010	DZLA000257	Roller, Feed	C		All
	2011	DZKP000251	Plate, Exit	C		All
	2012	DZLA000326	Roller, Exit Pinch	C		All
	2013	DZJM000683	Stopper, ADF Cover	C		All
	2014	DZKG000150	Shaft, Drive Pinch	C		All
	2015	DZLA000304	Roller, Drive Pinch	C		All
	2016	DZJM000686	Stopper, Original	C		All
	2017	DZJM000673	Guide, Upper Paper Feed	C		All
	2018	DZLA000204	Roller, Pre Feed	C	PM	All
	2019	DZKG000151	Shaft, Pre Feed	C		All
	2020	DZJM000414	Gear 2, Pre Feed	C		All
	2021	DZLF000330	Gear 1, Pre Feed	C		All
	2022	DZKN000272	Spring, Pick Up	C		All
	2023	DZJM000682	Cover, Pad	C		All
	2024	DZJN000052	Rubber, Separation	C	PM	All
	2025	DZLF000456	D Gear, D26	C		All
	2026	DZJM000685	Holder, Roller	C		All
	2027	DZJM000691	Rack, Pickup	C		All
	2028	DZJM000687	Guide, Rack	C		All
	2029	DZKG000153	Paper Feed Shaft Assembly	C		All
	2030	DZLF000385	F Gear, D16	C		All
	2031	DZKR000037	Spring, Pinch Roller Pressure	C		All
	2032	DZKM000020	Sheet, ADF	C		All
	2033	DZJA001172	Bracket, Center	C		All
	2034	PJBUC0091Z	Plate, Exit	C		All
	131	DZAL000211	Sensor, Photo	C		All
	698	FFPMQ0649	Bushing	C		All
	1901	DZJA000854	Bracket, Adjustment	C		All
	1902	DZMA003295	Cover, ADF	C		All
	1903	FFPLK0381B	Latch	C		All
	1904	DZKN000267	Spring, Latch	C		All
⚠	2324	L9EAAJ000020	Clutch	C		All
	2848	DZFP001964	Harness, ADF Motor	C		All
	2849	DZFP001965	Harness, PNT/REV	C		All
	X6	XTB3+8JFJ	Screw	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All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S9
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2033
X6
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2007
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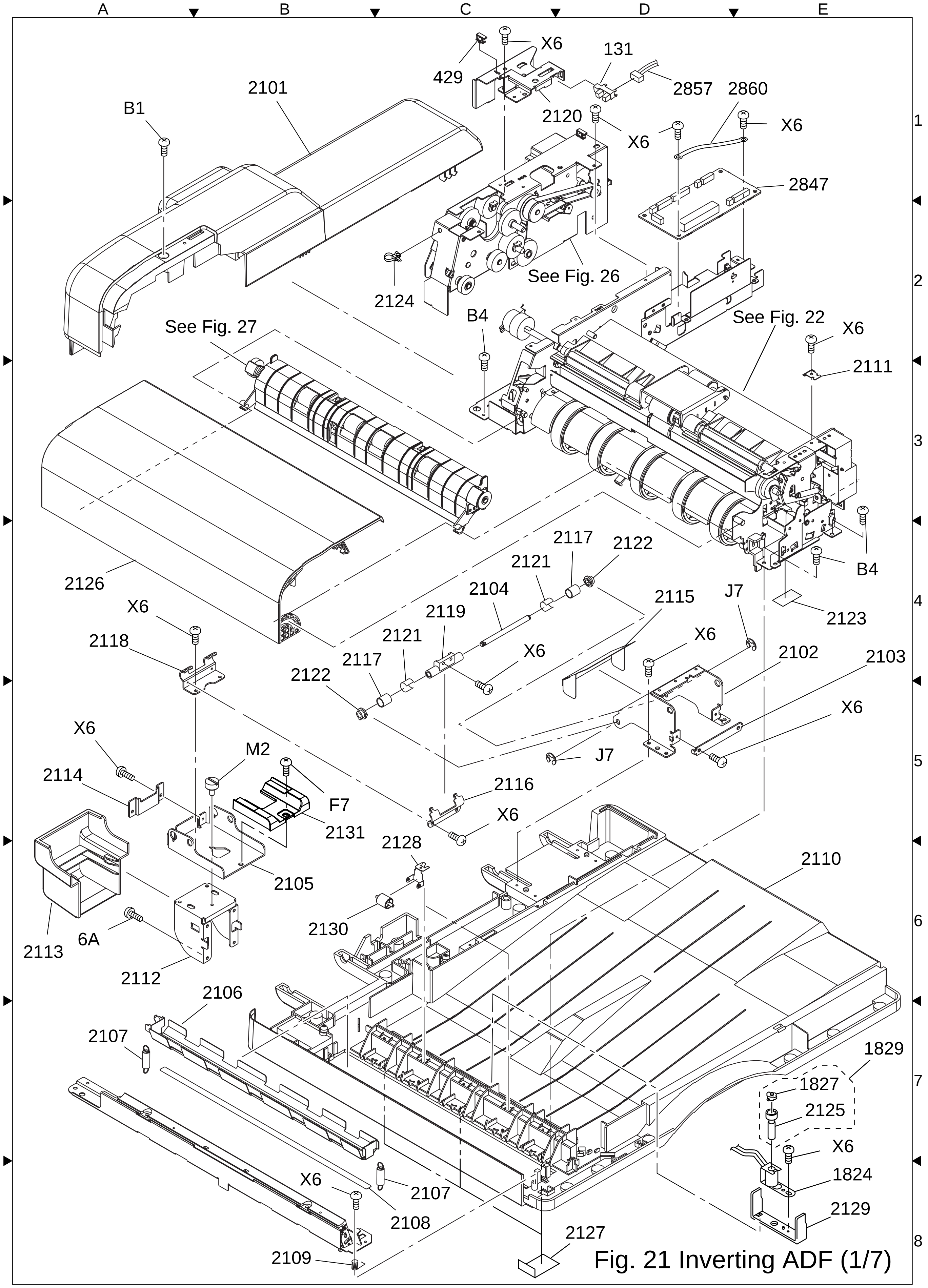
Fig. 20 ADF (4/4)

5.16. Inverting Automatic Document Feeder (For DP-8020E)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
⚠	2101	DZMA002337	Cover, ADF Rear	C		All
	2102	DZJA001470	Hinge, Arm	C		All
	2103	DZJA001472	Plate, Reinforcement	C		All
	2104	DZKG000424	Shaft, P6	C		All
	2105	DZJA001473	Base, Right Hinge (B)	C		All
	2106	DZJA000689	Guide, White Reference Seal	C		All
	2107	DZKN000187	Spring, White Reference Seal Guide	C		All
	2108	DZJM000486	Seal, White Reference	C		All
	2109	DZKN000207	Coil Spring, Ground	C		All
⚠	2110	DZMA002333	Base, ADF	C		All
	2111	DZKP000215	Plate Spring, ADF Input Tray	C		All
	2112	PJUIC0254Z	Bracket, ADF Mounting	C		All
	2113	DZMC000713	Cover, Hinge	C		All
	2114	DZJA000726	Stopper, Hinge	C		All
	2115	DZJM000449	Film, Hinge	C		All
	2116	DZJC000392	Carrier, Sleeve	C		All
	2117	DZJP000026	Felt	C		All
	2118	DZJC000391	Holder, Sleeve	C		All
	2119	DZJM000469	Sleeve, Right	C		All
	2120	DZJA000696	Bracket, Sensor	C		All
	2121	DZJM000475	Slider	C		All
	2122	DZLM000007	Bushing, P6L7.4	C		All
	2123	DZJM000888	Film, Front	C		All
	2124	DZJJ000009	Band	C		All
	2125	DZHP001664	Base, Stamp	C	For DP-8020E/8020P*	All
	2126	DZMA002329	Cover, ADF	C		All
	2127	DZJM001285	Film, Top Cover	C		All
	2128	DZKP000358	Spring, Plate	C		All
	2129	DZJM000429	Holder, Stamp	C		All
	2130	DZLA000080	Roller 1, Pinch	C		All
	2131	DZMA004372	Cover 2, Hinge	C		All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See Fig. 26
See Fig. 27
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See Fig. 22
X6
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1829
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X6
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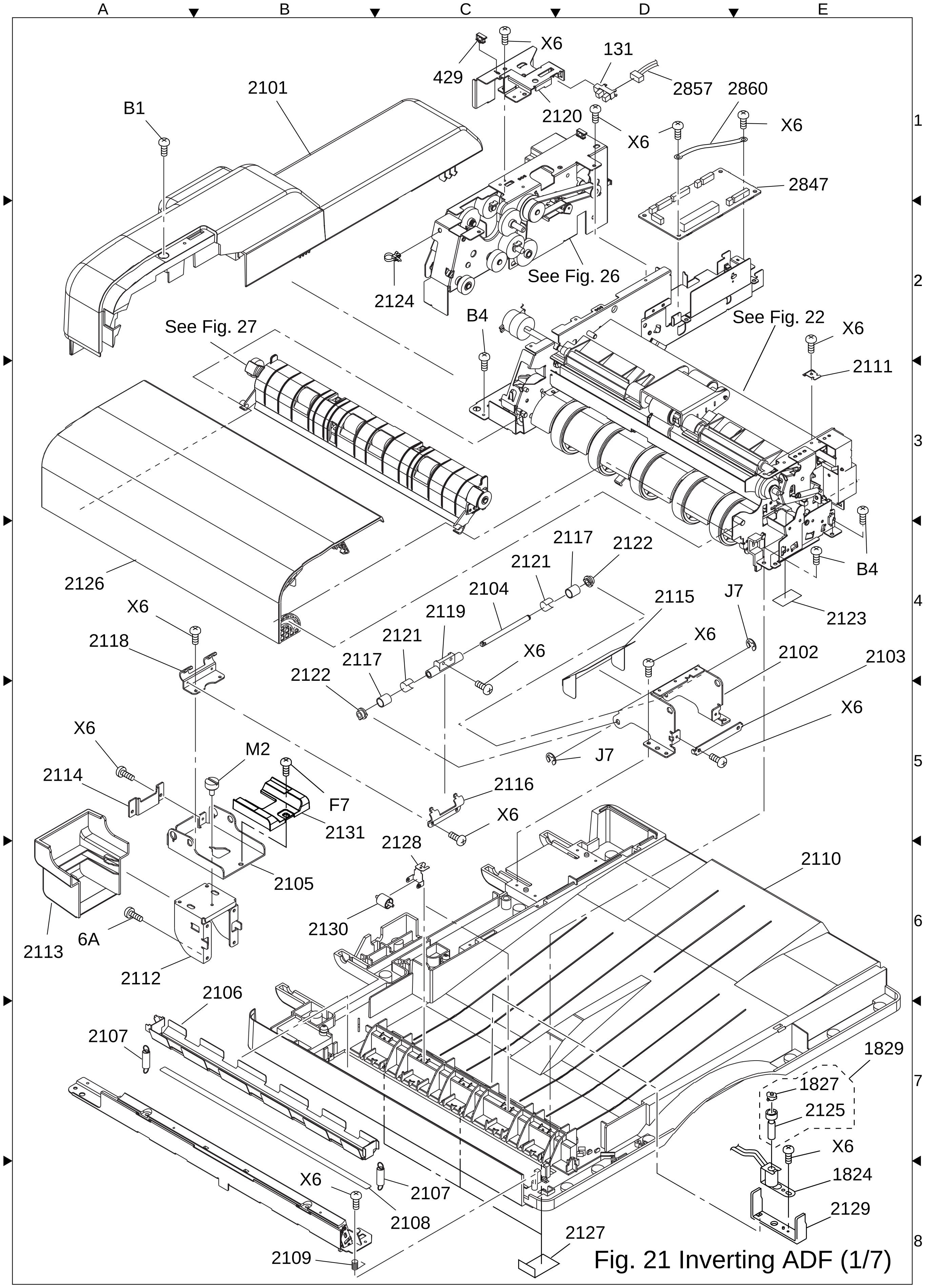
Fig. 21 Inverting ADF (1/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	131	DZAL000211	Sensor, Photo	C		All
	429	DZJK000045	Clamp	C		All
⚠	1824	L9AAAABA0002	Solenoid, Stamp	C	For DP-8020E/8020P*	All
	1827	DZHT000027	Stamp Head	C	For DP-8020E/8020P*	AUR
		DZHT000004				Other
	1829	DZHP000237	Assembly, Stamp	C	For DP-8020E/8020P*	AUR
		DZHP000240				Other
	2847	DZEC101648R	PC Board, ADF	C	For DP-8020E (RTL/PbF)	All
	2857	DZFP001674	Harness, B1 Sensor	C	For DP-8020E	All
	2860	DZFP001714	Harness, ADF-FG	C		All
	X6	XTB3+8JFJ	Screw	C		All
	J7	XUC4VM	E-Ring	C		All
	6A	XTB3+12GFJ	Screw	C		All
	B1	DZPB000007	Screw, Silver	C		All
	B4	XTB3+8JFI	Screw	C		All
	F7	XSN4+W10FN	Screw	C		All
	M2	DZPA000064	Screw, Thumb	C		All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See Fig. 26
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B4
See Fig. 27
See Fig. 22
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B4
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J7
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6A
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1829
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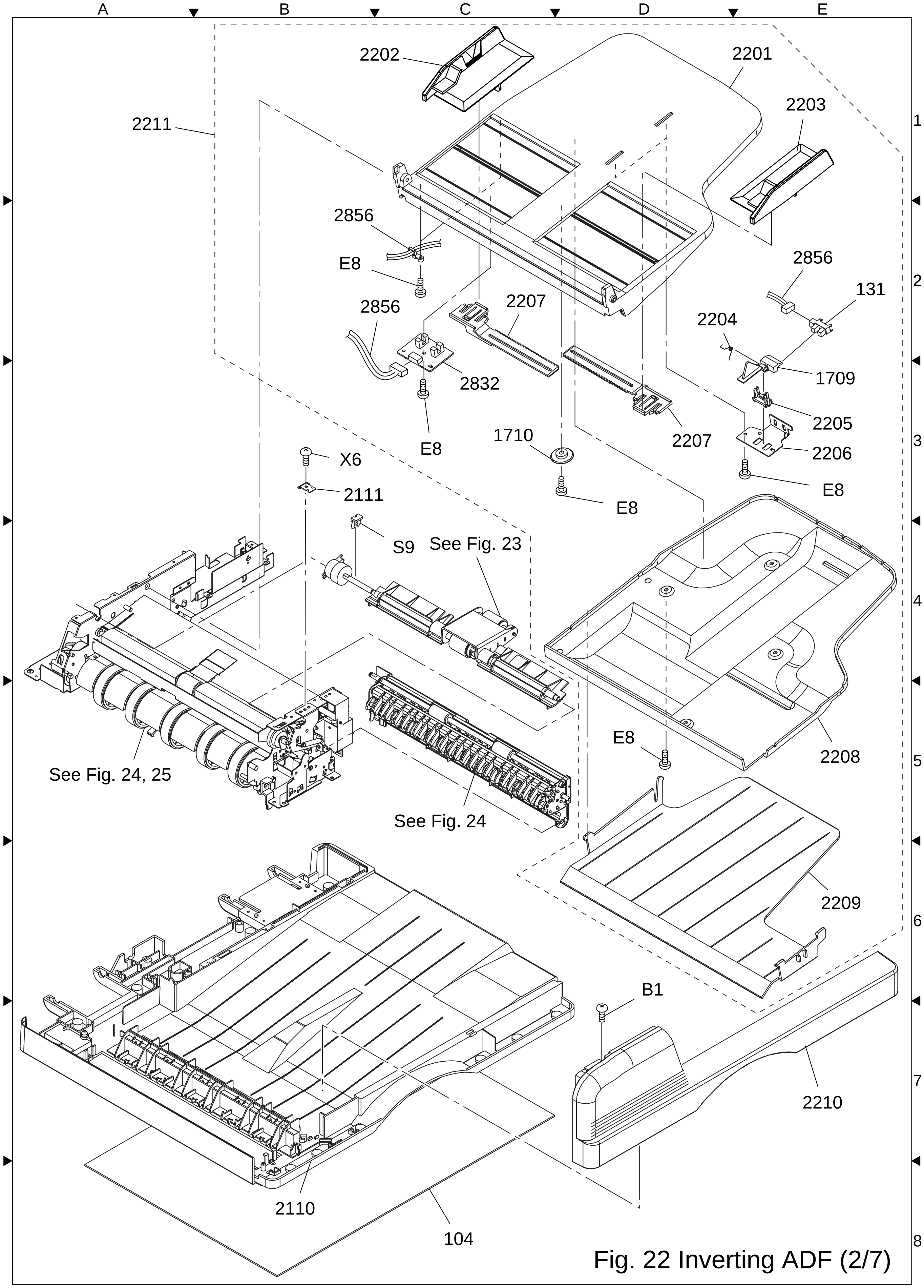
Fig. 21 Inverting ADF (1/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2201	DZMA002341	Tray, ADF Input	C		PU,PUG
		DZMA002474				Other
	2202	DZMA004339	Guide, Original Rear	C		All
	2203	DZMA004338	Guide, Original Front	C		All
	2204	DZKQ000012	Spring, Actuator	C		All
	2205	DZJM000159	Base, Actuator	C		All
	2206	DZJA000699	Bracket, Actuator	C		All
	2207	DZMA002348	Rack, Original Guide	C		All
	2208	DZMA002343	Cover, ADF Tray Bottom	C		All
	2209	DZML000508	Tray, Sub	C		All
⚠	2210	DZMA002335	Cover, ADF Front	C		All
	2211	DZHP010765R	Assembly, ADF Tray	C		PU,PUG
		DZHP010766R				Except PU, PUG
	104	PJHEC0124Z	Pad, Scanning	C		All
	131	DZAL000211	Sensor, Photo	C		All
	1709	DZHC000057	Actuator, Original Length	C		All
	1710	DZLF000077	F Gear, D14	C		All
⚠	2110	DZMA002333	Base, ADF	C		All
	2111	DZKP000215	Plate Spring, ADF Input Tray	C		All
	2832	DZEC102304R	PC Board, SNS	C		All
	2856	DZFP001711	Harness, SNS	C	For DP-8020E	All
	X6	XTB3+8JFJ	Screw	C		All
	B1	DZPB000007	Screw, Silver	C		All
	E8	XTW3+10SFJ	Screw	C		All
	S9	FFPFJ0033B	Snap Ring	C		All
		DZJM000171 or				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2111
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See Fig. 23
2208
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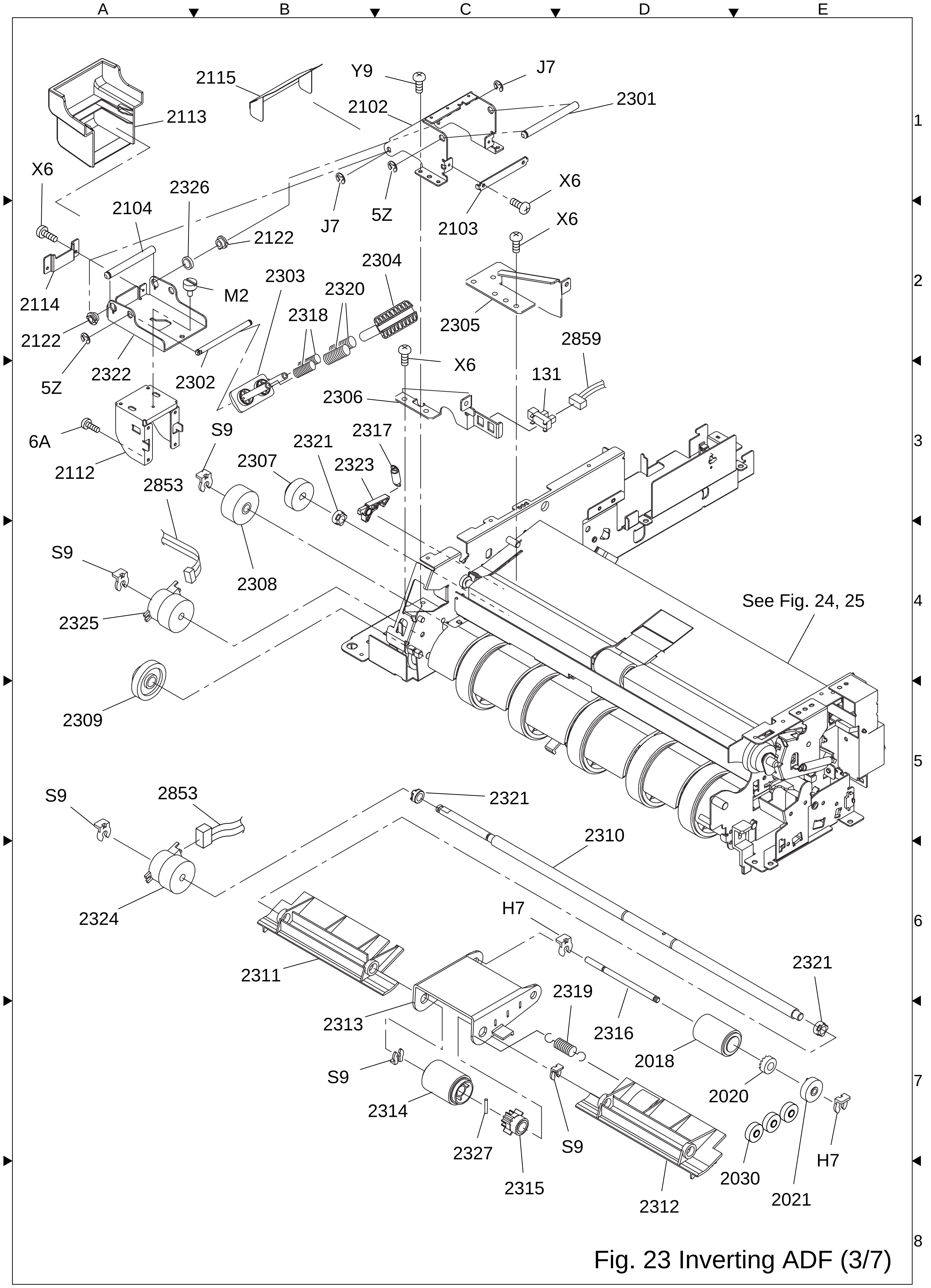
See Fig. 24, 25
See Fig. 24
2209
B1
2210
2110
104

Fig. 22 Inverting ADF (2/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2301	DZKG000422	Shaft, P8L	C		All
	2302	DZKG000423	Shaft, P8S	C		All
	2303	DZJM000434	Holder, Spring T	C		All
	2304	DZJM000435	Holder, Spring B	C		All
	2305	DZJA000694	Plate, Reinforcement B	C		All
	2306	DZJA000693	Plate, Reinforcement A	C		All
	2307	DZLF000382	Gear, E18	C		All
	2308	DZLF000036	Gear, E25	C		All
	2309	DZLF000028	Gear, E14E25	C		All
	2310	DZKG000109	Shaft, ADF	C		All
	2311	DZJM000411	Guide, Rear ADF	C		All
	2312	DZJM000410	Guide, Front ADF	C		All
	2313	DZJM000408	Holder, ADF	C		All
	2314	DZLA000205	Roller, ADF	C	PM	All
	2315	DZLF000329	Gear, ADF	C		All
	2316	DZKG000107	Shaft, Pre Feed Roller	C		All
	2317	DZKN000209	Spring, Latch	C		All
	2318	DZKN000231	Spring, Hinge Support	C		All
	2319	DZKQ000042	Spring, Introduction	C		All
	2320	DZKN000422	Spring, Hinge (Silver, i-ADF)	C		All
	2321	DZJL000115	Bushing	C		All
	2322	DZJA001471	Base, Left Hinge (A)	C		All
	2323	DZMG000018	Latch	C		All
⚠	2324	L9EAAJ000020	Clutch	C		All
⚠	2325	L9EAAJ000022	Clutch	C		All
	2326	DZPK000017	Washer	C		All
	2327	DZPG000001	Pin	C		All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See Fig. 24, 25
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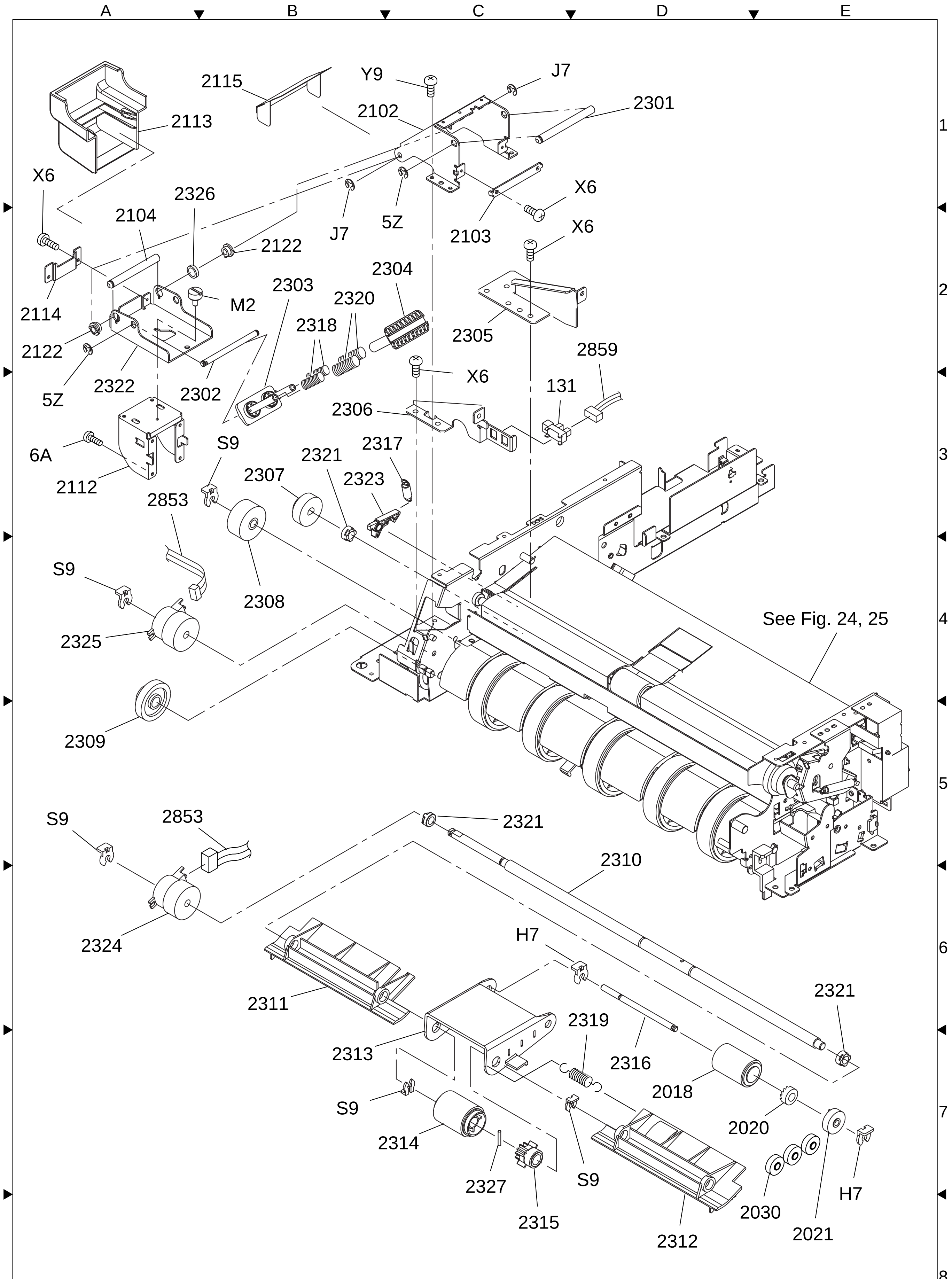
Fig. 23 Inverting ADF (3/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	131	DZAL000211	Sensor, Photo	C		All
	2018	DZLA000204	Roller, Pre Feed	C	PM	All
	2020	DZJM000414	Gear 2, Pre Feed	C		All
	2021	DZLF000330	Gear 1, Pre Feed	C		All
	2030	DZLF000385	F Gear, D16	C		All
	2102	DZJA001470	Hinge, Arm	C		All
	2103	DZJA001472	Plate, Reinforcement	C		All
	2104	DZKG000424	Shaft, P6	C		All
	2112	PJUIC0254Z	Bracket, ADF Mounting	C		All
	2113	DZMC000713	Cover, Hinge	C		All
	2114	DZJA000726	Stopper, Hinge	C		All
	2115	DZJM000449	Film, Hinge	C		All
	2122	DZLM000007	Bushing, P6L7.4	C		All
	2853	DZFP001705	Harness, ADF Motor and Clutch	C	For DP-8020E	All
	2859	DZFP001713	Harness, Exit Sensor	C	For DP-8020E	All
	X6	XTB3+8JFJ	Screw	C		All
	Y9	XYN4+F8FJ	Screw	C		All
	J7	XUC4VM	E-Ring	C		All
	5Z	XUC6VM	E-Ring	C		All
	6A	XTB3+12GFJ	Screw	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	M2	DZPA000064	Screw, Thumb	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All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See Fig. 24, 25
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Fig. 23 Inverting ADF (3/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2401	DZJA001460	Bracket, Front ADF	C		All
	2402	DZJA000679	Bracket, Solenoid	C		All
⚠	2403	L9AAAEGB0006	Solenoid	C		All
	2404	DZJM000412	Lever, Release	C		All
	2405	DZJM000432	Cover, Gear Bracket	C		All
	2406	DZLF000015	Gear, B44	C		All
	2407	DZKN000006	Coil Spring, Idle Gear	C		All
	2408	DZJM000431	Plate, Moving Gear	C		All
	2409	DZJA000697	Bracket, Moving Gear	C		All
	2410	DZLF000172	Gear, B42E27	C		All
⚠	2411	L9AABCEZ0001	Solenoid	C		All
	2412	DZKN000185	Spring, Reversing Guide 1	C		All
	2413	DZJA000685	Bracket, Reversing Guide 1	C		All
	2414	DZJM000422	Adjuster	C		All
	2415	DZJM000421	Joint	C		All
	2416	DZJA001462	Bracket, Reversing Guide 2	C		All
	2417	DZKN000188	Spring	C		All
	2418	DZFC001576	Connector 3	C		All
	2419	DZLF000327	Gear, B18	C		All
	2420	DZJM000430	Lever, Stopper	C		All
	2421	DZJM000477	Stopper, Rubber	C		All
	2422	DZLM000046	Bushing, P6	C		All
	2423	DZLF000332	Gear, E18 Drive	C		All
	2424	DZKP000205	Holder, Pinch Roller	C		All
	2425	DZKP000206	Plate Spring, Ground	C		All
	2426	DZJA001466	Bracket, Inverting Guide Front	C		All
	2427	DZJA001467	Bracket, Inverting Guide Rear	C		All
	2428	DZLA000383	Roller, Inverting Feed	C		All
	2429	DZMA002339	Cover, ADF Exit	C		All
	2430	DZJM000424	Guide, Inverting 2	C		All
	2431	DZJM000425	Guide, Duplex 2	C		All
	2432	DZJM000423	Guide, Inverting 1	C		All
	2433	DZKN000186	Spring, Duplex 2 Guide	C		All
	2434	DZJM000426	Lever, Duplex 2 Guide	C		All
	2435	DZFC001575	Connector, TR2	C		All
	1719	DZGT000007	Brush, Antistatic	C		All
	2130	DZLA000080	Roller 1, Pinch	C		All
	2317	DZKN000209	Spring, Latch	C		All
	2321	DZJL000115	Bushing	C		All
	2323	DZMG000018	Latch	C		All
	2855	DZFP001710	Harness, CLT	C	For DP-8020E	All
	X6	XTB3+8JFJ	Screw	C		All
	5M	XYN3+F4FJ	Screw	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All

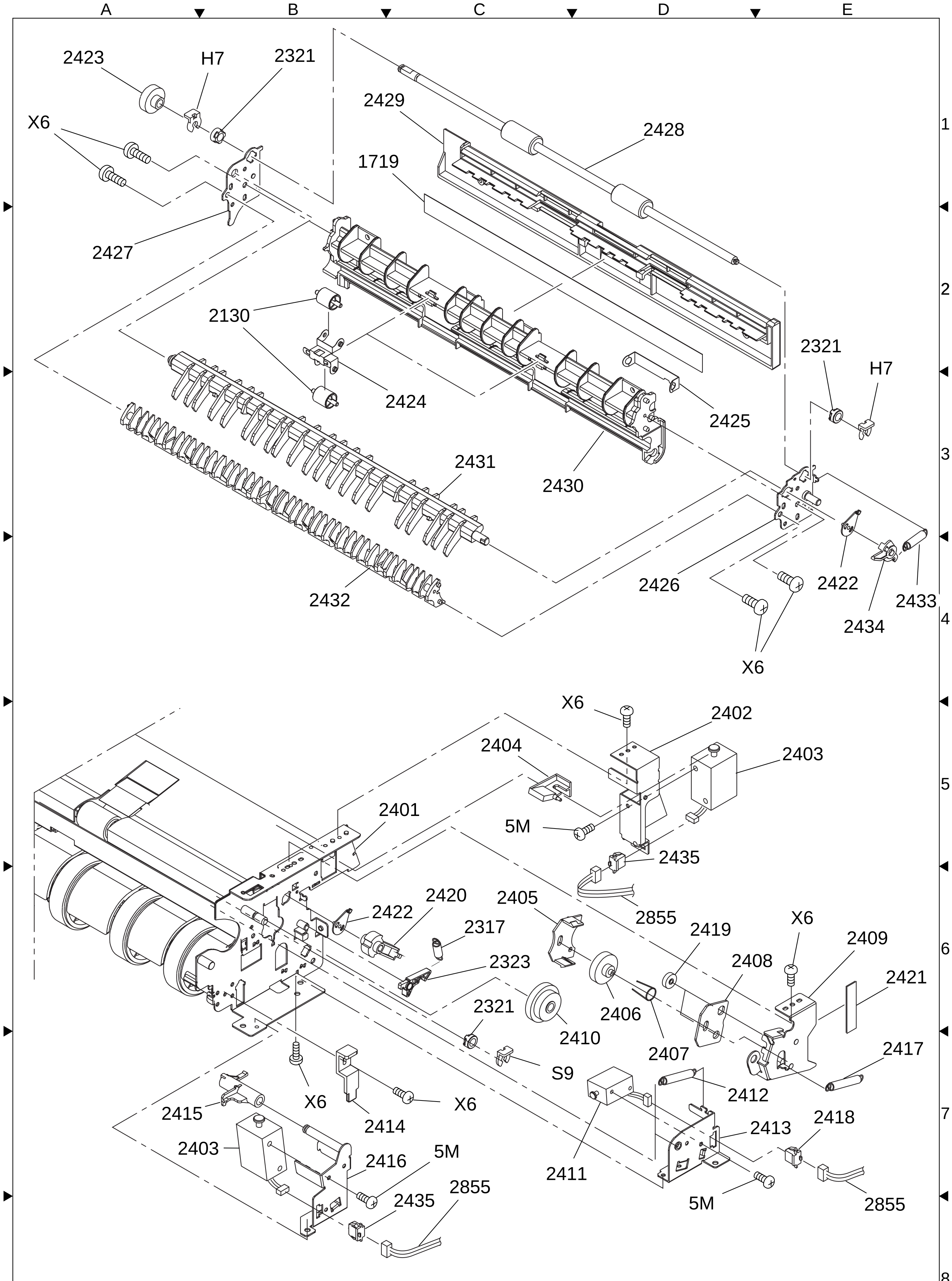
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Fig. 24 Inverting ADF (4/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2501	DZJA001459	Bracket, Rear ADF	C		All
	2502	DZJF000407	Guide, Upper ADF	C		All
	2503	DZKP000202	Plate Spring, Pinch Roller	C		All
	2504	DZJA001461	Plate, Release Lever	C		All
	2505	DZJF000408	Guide, Lower ADF	C		All
	2506	DZJM000409	Stopper, Original	C		All
	2507	DZKG000416	Shaft, Separation Roller	C		All
	2508	DZJM000415	Bushing	C		All
	2509	DZLA000206	Roller, Separation	C	PM	All
	2510	DZJM000416	Bushing, Torque Limiter	C	PM	All
	2511	DZKQ000031	Spring, Torque Limiter	C	PM	All
	2512	DZKN000184	Spring, Separation Roller	C		All
	2513	DZJM000413	Holder, Separation Roller	C		All
	2514	DZJM000442	Film, ADF Pre Feed	C		All
	2515	DZLA000382	Roller, Exit 3	C		All
	2516	DZJM000420	Guide 1, Reversing	C		All
	2517	DZLA000381	Roller, Feed 2	C		All
	2518	DZJM000418	Guide, Feed 2 Roller	C		All
	2519	DZJM000419	Holder, Sensor C	C		All
	2520	DZHC000105	Actuator, Sensor C	C		All
	2521	DZJA000684	Holder, Sensor B2	C		All
	2522	DZHC000104	Actuator, Sensor B2	C		All
	2523	DZJM000491	Film, Reversing Guide 1	C		All
	2524	DZKR000024	Spring, Sensor B2	C		All
	2525	DZHP003955	Assembly, Torque Limiter	C		All
	131	DZAL000211	Sensor, Photo	C		All
	430	DZJK000046	Clamp	C		All
	1719	DZGT000007	Brush, Antistatic	C		All
	2032	DZKM000020	Sheet, ADF	C		All
	2123	DZJM000888	Film, F	C		All
	2124	DZJJ000009	Band	C		All
	2130	DZLA000080	Roller 1, Pinch	C		All
	2305	DZJA000694	Plate, Reinforcement B	C		All
	2307	DZLF000382	Gear, E18	C		All
	2321	DZJL000115	Bushing	C		All
⚠	2325	L9EAAJ000022	Clutch	C		All
	2401	DZJA001460	Bracket, Front ADF	C		All
	2404	DZJM000412	Lever, Release	C		All
	2420	DZJM000430	Lever, Stopper	C		All
	2422	DZLM000046	Bush, P6	C		All
	2858	DZFP001712	Harness, Read Point Sensor	C	For DP-8020E	All
	2859	DZFP001713	Harness, Exit Sensor	C	For DP-8020E	All
	X6	XTB3+8JFJ	Screw	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All

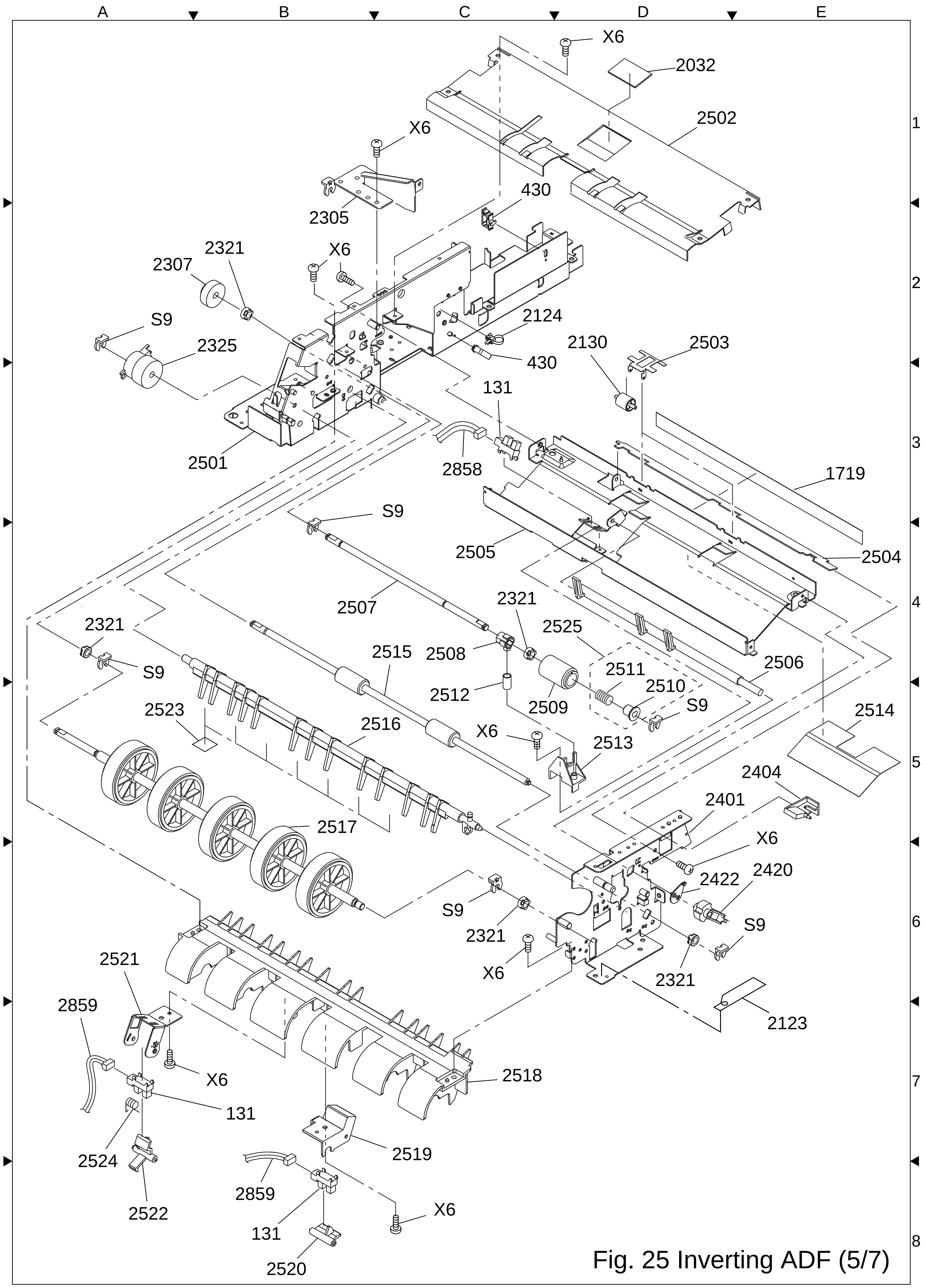
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Fig. 25 Inverting ADF (5/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
⚠	2601	L6HBJJGB0001	Motor, ADF	C		All
	2602	DZJA000695	Bracket, Gear	C		All
	2603	DZKG000113	Shaft	C		All
	2604	DZLF000331	Gear, E26S35 Drive	C		All
	2605	DZLF000283	Gear, E29	C		All
	2606	DZLF000333	Gear, E21E27	C		All
	2607	DZLF000335	Gear, D24E18	C		All
	2608	DZLF000008	Gear, D16	C		All
	2609	DZLF000191	Gear, D24E18	C		All
	2610	DZJA001468	Bracket, Motor	C		All
	2611	DZLB000013	Pulley	C		All
	2612	DZLK000013	Belt 2, Timing	C		All
	2613	DZJA001469	Bracket, Pulley	C		All
	2614	DZKG000114	Shaft 1, Drive	C		All
	2615	DZKG000115	Shaft 2, Drive	C		All
	2616	DZLF000334	Gear, E21 Drive	C		All
	2617	DZJA000675	Bracket, Actuator	C		All
	2619	DZKN000126	Spring, Gear	C		All
	2620	DZJA000681	Bracket, Rear ADF Cover	C		All
	2621	DZJA000680	Bracket, Front ADF Cover	C		All
	2622	DZHC000102	Actuator 2	C		All
	2623	DZKG000108	Shaft, Pinch Roller	C		All
	2624	DZLA000211	Roller 2, Pinch	C		All
	2625	DZKP000204	Plate Spring 2, Discharge	C		All
	2626	DZJA000677	Plate 1, Adjustment	C		All
	2627	DZHC000103	Actuator 3	C		All
	2628	DZJM000407	Cover, Sub ADF	C		All
	2629	DZKP000200	Plate Spring, Pinch Roller	C		All
	2630	DZJM000476	Sponge	C		All
	2631	DZKQ000051	Spring, B1 Sensor	C		All
	2632	L9EAAJ000021	Clutch	C		All
	131	DZAL000211	Sensor, Photo	C		All
	429	DZJK000045	Clamp	C		All
	430	DZJK000046	Clamp	C		All
	2126	DZMA002329	Cover, ADF	C		All
	2308	DZLF000036	Gear, E25	C		All
	2321	DZJL000115	Bushing	C		All
	2323	DZMG000018	Latch	C		All
	2423	DZLF000332	Gear, E18 Drive	C		All
	2853	DZFP001705	Harness, ADF Motor and Clutch	C	For DP-8020E	All
	2854	DZFP001672	Harness, ADF Clutch	C	For DP-8020E	All
	2857	DZFP001674	Harness, B1 Sensor	C	For DP-8020E	All
	X6	XTB3+8JFJ	Screw	C		All
	Y9	XYN4+F8FJ	Screw	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All

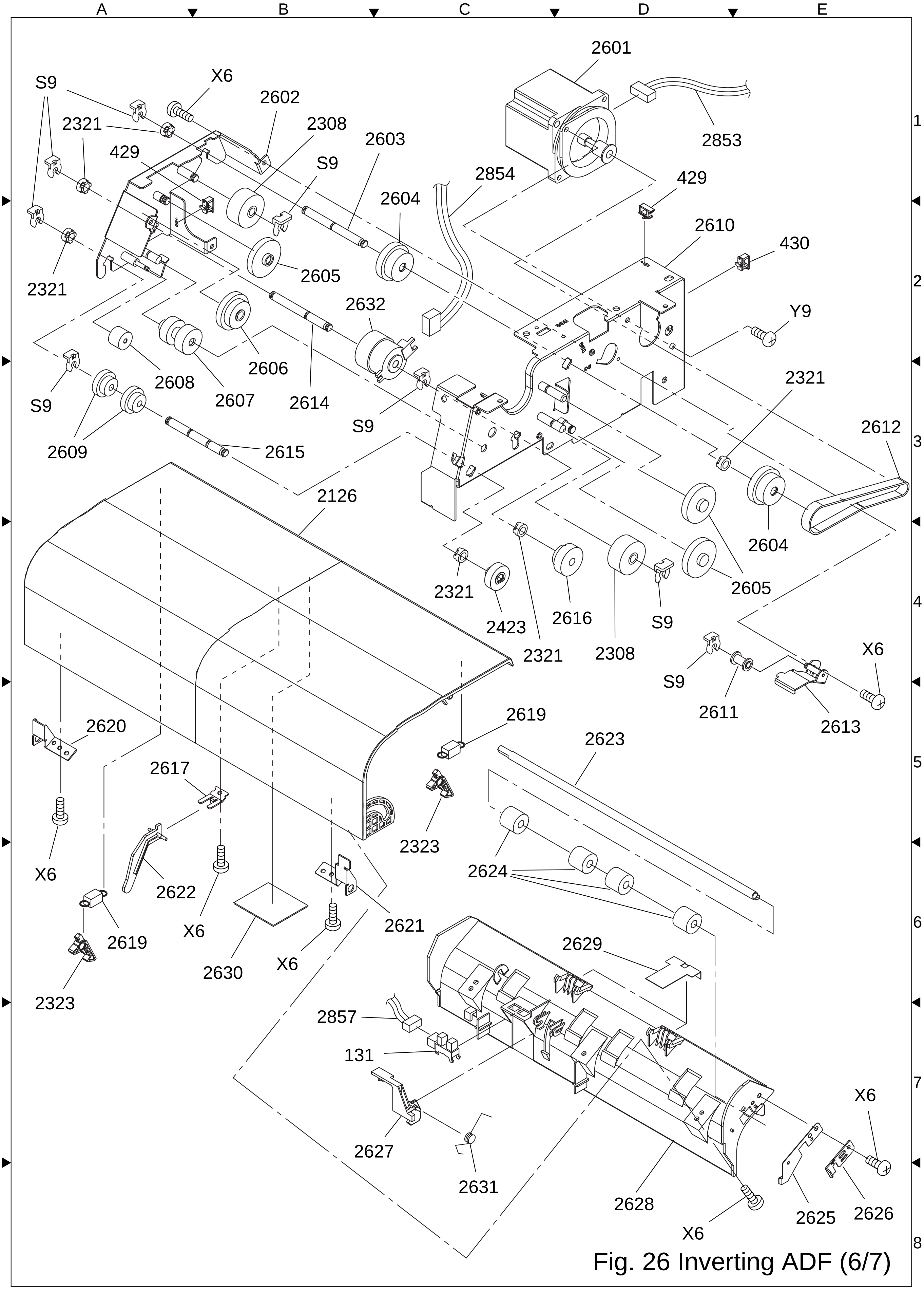
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Fig. 26 Inverting ADF (6/7)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2701	DZJM000427	Guide, Upper Feed	C		All
	2702	DZJA000688	Guide, Skew	C		All
	2703	DZKG000112	Shaft, Drive Pinch	C		All
	2704	DZKP000207	Plate Spring, Drive	C		All
	2705	DZJF000409	Guide, Sub Top	C		All
	2706	DZLA000384	Roller, Drive	C		All
	2707	DZJM001230	Guide, Lower Feed	C		All
	2708	DZKP000203	Plate Spring, Discharge	C		All
	2709	DZJA000678	Plate, Adjustment 2	C		All
	2710	DZKP000201	Plate Spring, Pinch 1	C		All
	2711	DZJM000406	Guide, Inverting Feed	C		All
	2712	DZKG000110	Shaft, Pinch 2	C		All
	2713	DZJM001284	Guide, Film A	C		All
	2714	DZJM001283	Sheet, Guide 2	C		All
	2321	DZJL000115	Bushing	C		All
	2423	DZLF000332	Gear, E18 Drive	C		All
	2624	DZLA000211	Roller 2, Pinch	C		All
	X6	XTB3+8JFJ	Screw	C		All

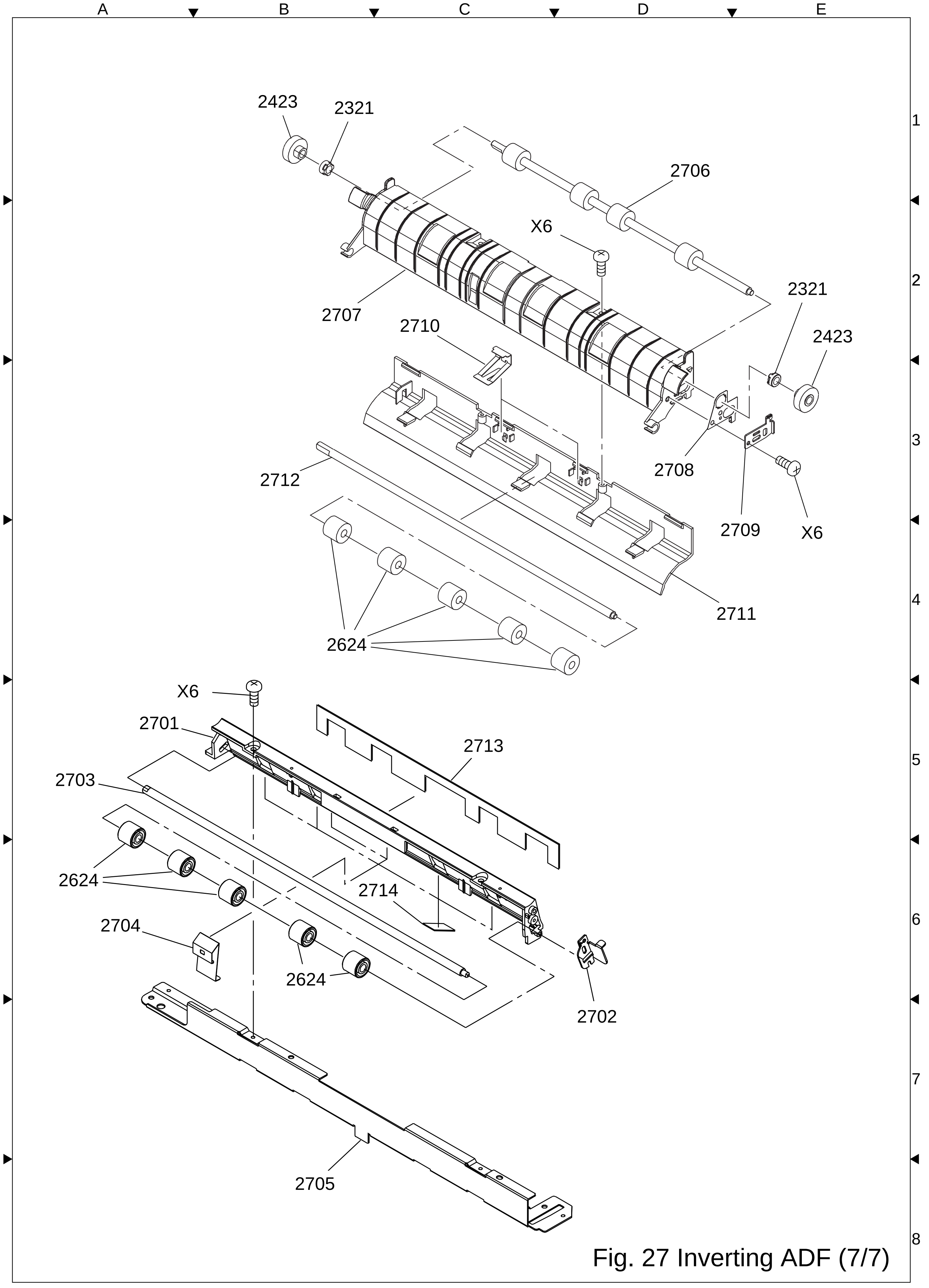
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Fig. 27 Inverting ADF (7/7)

5.17. PC Boards/Harnesses

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2801	DZEC104116	PC Board, SC	N	For DP-8016P (RTL/PbF)	PU, PUG
		DZEC104134				PA
		DZEC104119				PB, PY
		DZEC104125				PF
		DZEC104137				PK
		DZEC104122				PM
		DZEC104131				PP
		DZEC104128				PS
		DZEC104140				PT
		DZEC104117			For DP-8020P* (RTL/PbF)	PU, PUG
		DZEC104135				PA
		DZEC104120				PB, PY
		DZEC104126				PF
		DZEC104138				PK
		DZEC104123				PM
		DZEC104132				PP
		DZEC104129				PS
		DZEC104141				PT
		DZEC104118			For DP-8020E (RTL/PbF)	PU, PUG
		DZEC104136				PA
		DZEC104121				PB, PY
		DZEC104127				PF
		DZEC104139				PK
		DZEC104124				PM
		DZEC104133				PP
		DZEC104130				PS
		DZEC104142				PT
	2802	DZEC104147	PC Board, SPC	N	RTL/PbF	All
	2803	DZEC102176R	PC Board, DC	C	RTL/PbF	All
	2804	PJWPF2740AZ	PC Board, RLB	C		All
	2806	DZEC102751R	PC Board, WTS	C		All
	2810	DZFP001634	Harness, PNL1	C	For DP-8020E	All
		DZFP001635			For DP-8020P*	All
		DZFP001636			For DP-8016P	All
	2811	DZFP001622	Harness, CCD	C		All
	2812	DZFP001632	Harness, DC	C		All
	2813	DZFP001651	Harness, HDD	C		All
	2814	DZFP001623	Harness, LSU 2	C		PU, PT, PK, PUG
		DZFP002105	Harness, LSU 2B			Except PU, PT, PK, PUG
	2815	DZFP001587	Harness, PS	C		All
	2816	DZFP001620	Harness, SC-SPC	C		All
	2817	DZFP001598	Harness, SNS	C		All
	2818	DZFP001589	Harness, Thermistor 2	C		All
	2819	DZFP001595	Harness, WTS	C		All

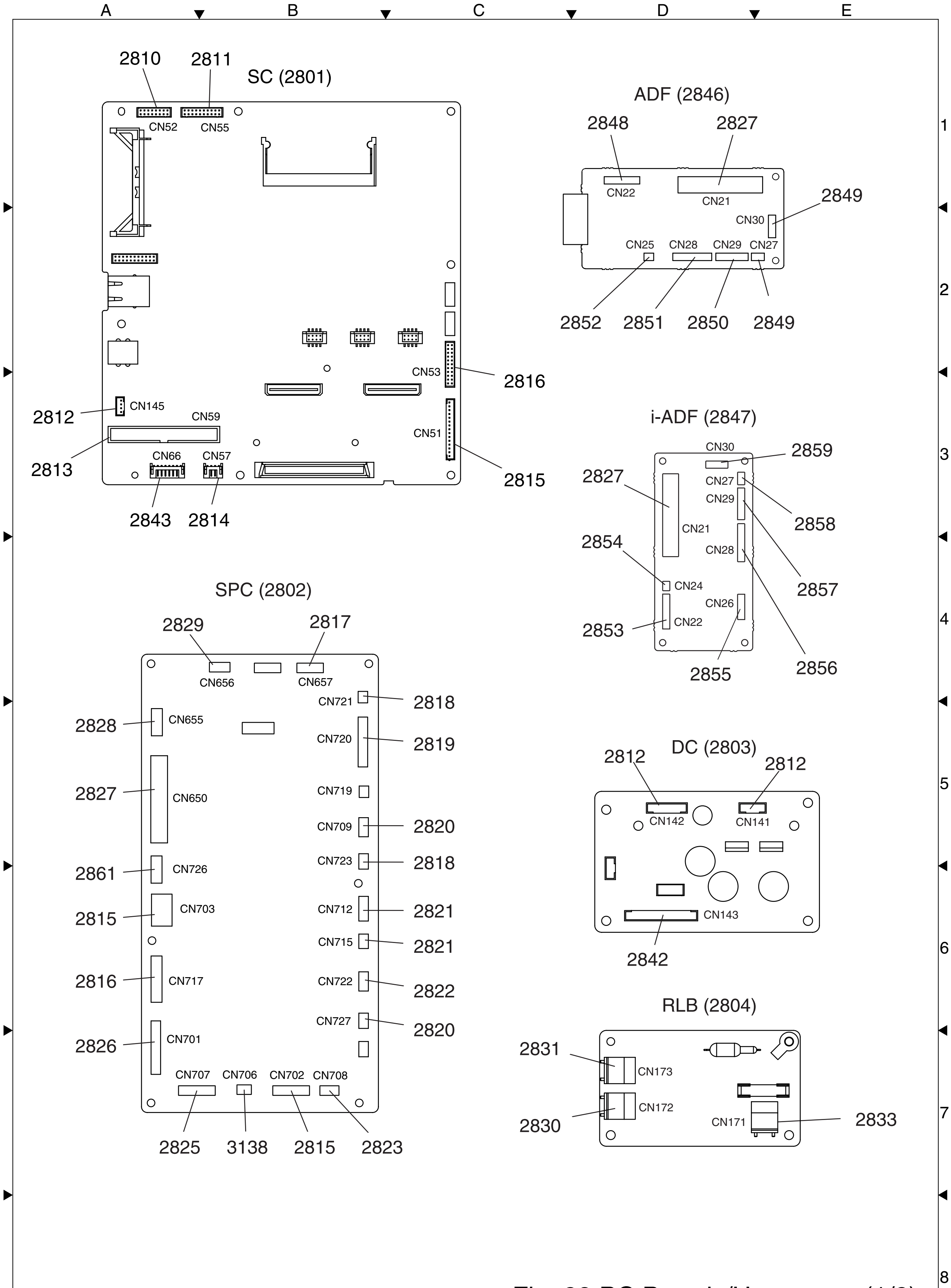
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Fig. 28 PC Boards/Harnesses (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	2820	DZFP001597	Harness, Paper Tray Sensor	C		All
	2821	DZFP001592	Harness, SSN	C		All
	2822	DZFP001603	Harness, BSMT	C		All
	2823	DZFP001588	Harness, ILS	C		All
	2825	DZFP001611	Harness, Paper Tray 2	C		All
	2826	DZFP001596	Harness, LSU 1	C		PU, PT, PK, PUG
		DZFP002104	Harness, LSU 1B			Except PU, PT, PK, PUG
	2827	DZFP001969	Harness, ADF	C		All
		DZFP001971	Harness, i-ADF		For DP-8020E	PK, PT, PU, PUG
		DZFP001377				Other
	2828	DZFP001593	Harness, SCN	C		All
	2829	DZFP001594	Harness, INV	C		All
	2830	DZFP001639	Harness, PTC-AC 1	C		All
	2831	DZFP001641	Harness, PTC-AC 3	C		All
	2833	DZFP001653	Harness, RLB	C		All
	2842	DZFP001633	Harness, HDDPS	C		All
	2843	DZFP001624	Harness, CSS	C		All
	2846	DZEC102303R	PC Board, ADF	C	RTL/PbF	All
	2847	DZEC101648R	PC Board, ADF	C	For DP-8020E (RTL/PbF)	All
	2848	DZFP001964	Harness, ADF Motor	C		All
	2849	DZFP001965	Harness, PNT/REV	C		All
	2850	DZFP001966	Harness, Open Switch	C		All
	2851	DZFP001968	Harness, ADF SNS	C		All
	2852	DZFP001967	Harness, Stamp	C	For DP-8020E/8020P*	All
	2853	DZFP001705	Harness, ADF Motor and Clutch	C	For DP-8020E	All
	2854	DZFP001672	Harness, ADF Clutch	C	For DP-8020E	All
	2855	DZFP001710	Harness, CLT	C	For DP-8020E	All
	2856	DZFP001711	Harness, SNS	C	For DP-8020E	All
	2857	DZFP001674	Harness, B1 Sensor	C	For DP-8020E	All
	2858	DZFP001712	Harness, Read Point Sensor	C	For DP-8020E	All
	2859	DZFP001713	Harness, Exit Sensor	C	For DP-8020E	All
	2861	DZFP001902	Harness, KEY	C		All
⚠	3138	PJWQF2120PB	Assembly, Lift Motor	C		All

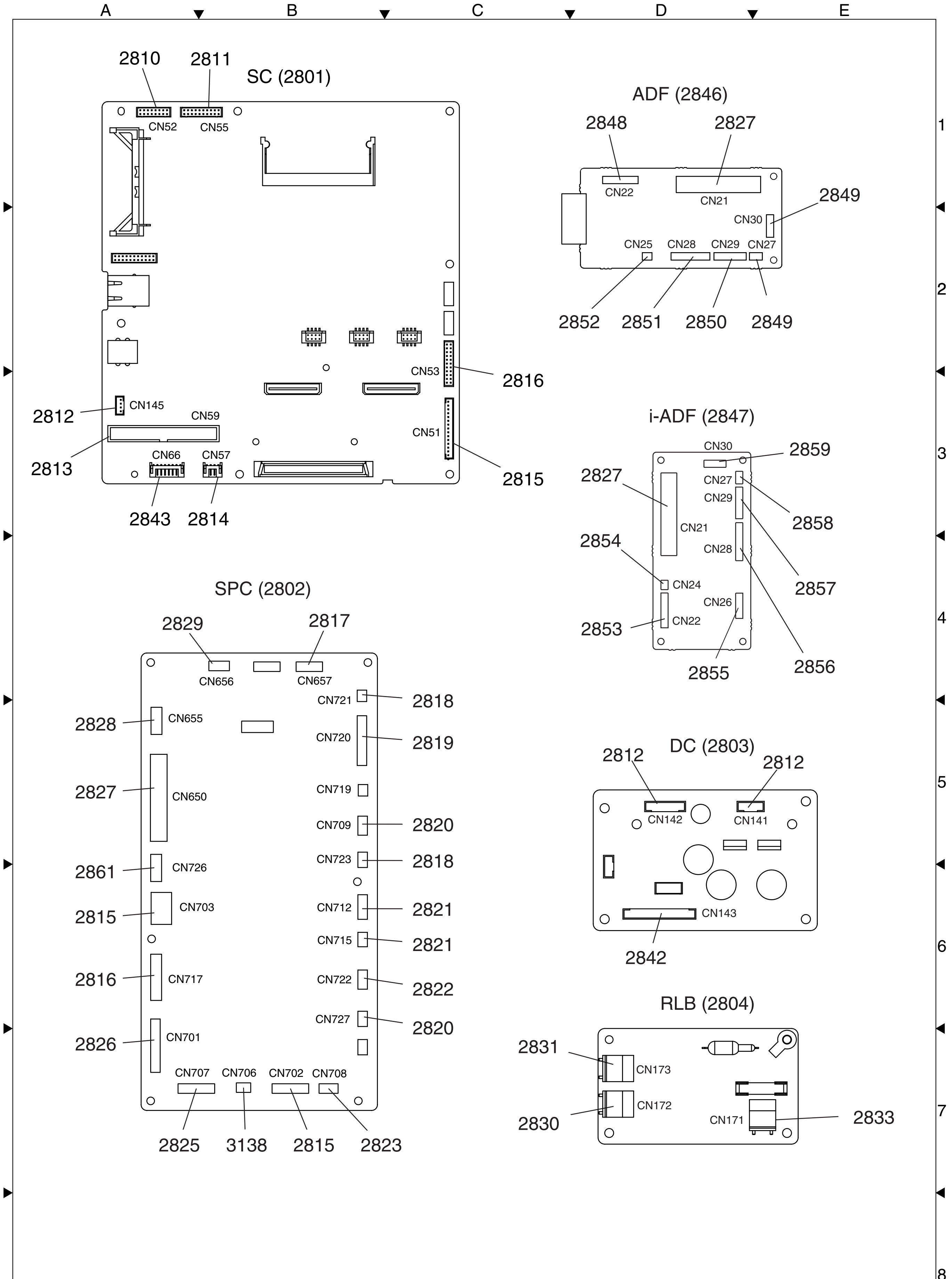
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Fig. 28 PC Boards/Harnesses (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
⚠	2901	ETXDN478AAEA	PC Board, PS	C		PU, PUG, PT
		ETXDN478EAEC		N		PK
		ETXDN478EAEA		C		Except PU, PUG, PT, PK
⚠	2902	DZEC103793	PC Board, MJR	C	RTL/PbF	AUR
		DZEC103795				AAR, ABR, AGR AHR, AJR, ALR AMR, APR, ARR AVR, EER, ENR YGR, YPR, YXR
		DZEC103797				Except AAR, ABR, AGR AHR, AJR, ALR AMR, APR, ARR AUR, AVR, EER ENR, YGR, YPR YXR
⚠	2903	DZEC103116R	PC Board, FXB	C	RTL/PbF	AUR
		DZEC103117R				Except AUR
	2904	DZEC102911R	PC Board, PNL1	C	RTL/PbF	All
	2906	DZEC102913R	PC Board, PNL3	C		All
	2908	DZEC103665	PC Board, CST2	C	RTL/PbF	All
	2909	DZEC102749R	PC Board, CST3	C	RTL/PbF	All
	2910	DZEC102917R	PC Board, SSN	C		Except PK, PT
		DZEC103157R				PK, PT
	2911	DZFP001617	Harness, HV 2	C		All
	2912	DZFP001602	Harness, HV 1	C		All
	2913	DZFP001599	Harness, ACIN	C		All
	2914	DZFP001600	Harness, ACSW	C		All
	2915	DZFP001630	Harness, MJR-FXB	C		All
	2916	DZFP001627	Harness, PNL1-PNL3 A	C		All
	2917	DZFP001628	Harness, PNL1-PNL3 B	C		All
	2918	DZFP001629	Harness, PNL1-PNL4	C		All
	2919	DZFP001614	Harness, Paper Tray Sensor 2	C		All
	2920	DZFP001613	Harness, CL2	C		All
	2921	DZFP001612	Harness, Paper Tray 3	C		All
	2922	DZFP001615	Harness, CL3	C		All
	2923	DZFP001533	Harness, PNL2 1	C		All
	2924	DZFP001534	Harness, PNL2 2	C		All
	2925	DZFP001601	Harness, HT	C		All
	519	MGG03204Z03	LCD Module	C		All
	2810	DZFP001634	Harness, PNL1	C	For DP-8020E	All
		DZFP001635			For DP-8020P*	All
		DZFP001636			For DP-8016P	All
	2815	DZFP001587	Harness, PS	C		All
	2825	DZFP001611	Harness, Paper Tray 2	C		All
	2833	DZFP001653	Harness, RLB	C		All

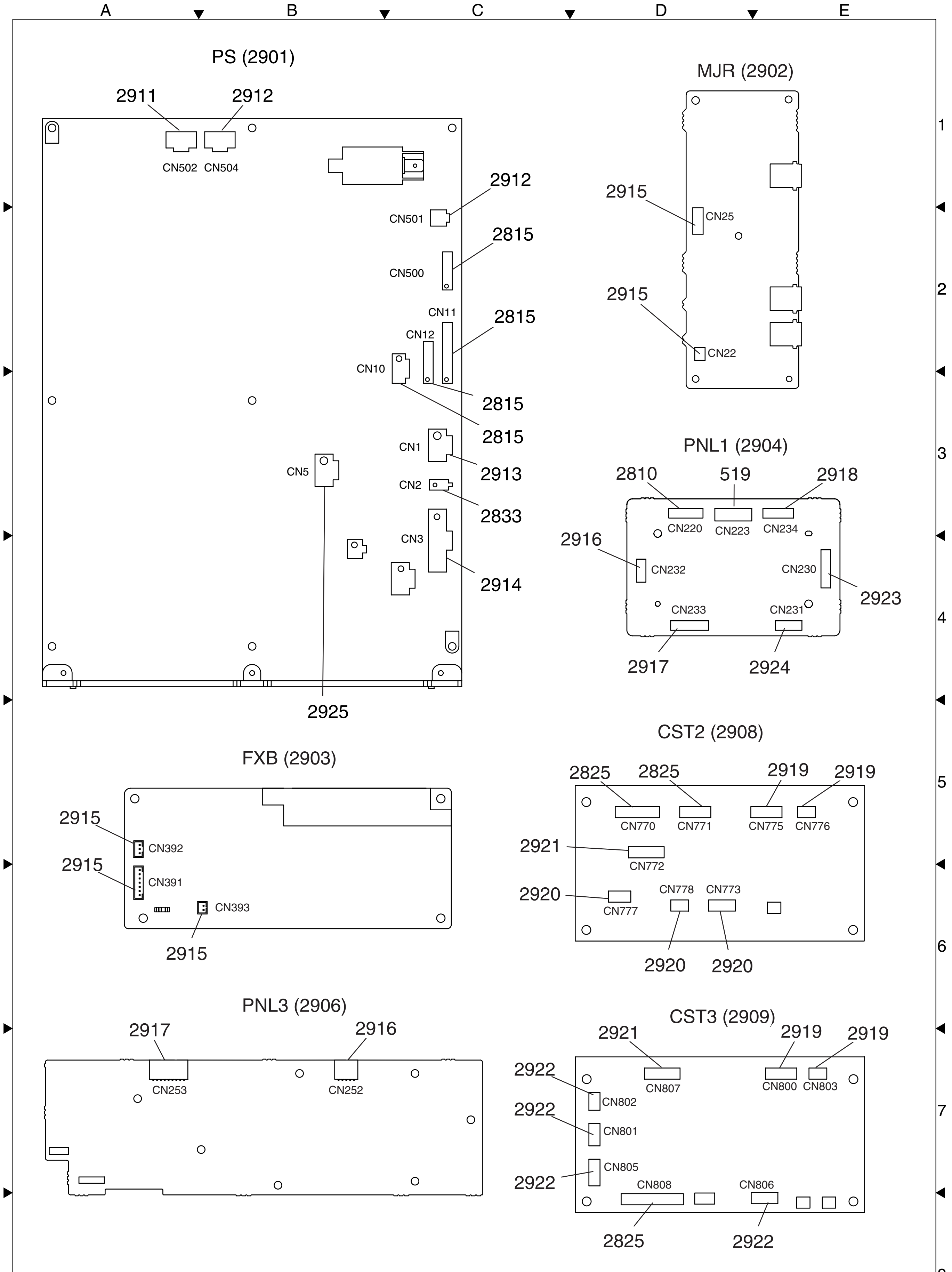
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Fig. 29 PC Boards/Harnesses (2/2)

5.18. 2nd/4th Paper Tray

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3001	DZJE001196	Cover, Front Paper Tray	C		All
	3002	DZMA004431	Cover, Right Paper Tray	C		All
	3003	DZJD000040	Bracket, Right Post	C		All
⚠	3004	DZMA004432	Cover, Rear Paper Tray	C		All
	3005	DZJB000436	Bracket, Rear Upper	C		All
	3006	DZJB000437	Bracket, Rear Center	C		All
	3007	DZMB000024	Bracket, Rear Lower Right	C		All
	3008	DZMB000025	Bracket, Rear Lower Left	C		All
	3009	DZJA001400	Bracket, Drive Cover	C		All
	3010	DZJH000126	Bracket, Paper Feed	C		All
	3011	DZJB000427	Base, Right Paper Tray	C		All
	3012	DZJB000428	Bracket, Paper Tray Base	C		All
	3013	DZJD000042	Bracket, Front Post	C		All
	3014	DZJB000435	Base, Left Paper Tray	C		All
	3015	DZMB000026	Cover, Jam Access	C		All
	3016	DZLA000198	Roller, Paper Tray	C		All
	3017	DZJF000489	Leg, Gum	C		All
	3018	DZMG000041	Catcher, Magnet	C		All
	3020	DZKP000084	Spring, Pinch Roller	C		All
	3021	DZJM001349	Sheet, Paper Guide	C		All
	3022	DZJM001322	Guide, Paper	C		All
	3023	DZJD000041	Bracket, Left Post	C		All
	3024	DZKP000388	Spring, Ground	C		All
	618	DZLM000213	Bushing	C		All
	629	DZLA000366	Roller, Reverse	C	PM	All
	631	DZKK000129	Arm, Reverse	C		All
	632	DZJA001420	Bracket, Reverse	C		All
	633	DZKG000405	Shaft, Reverse	C		All
	686	DZKN000416	Spring, Reverse	C		All
	690	DZHP010738	Torque Limiter 1	C	PM	All
	931	DZMC000821	Plate, Base	C		All
	1619	PJRCC0004Z	Label, Sensor	C		All
	2130	DZLA000080	Roller 1, Pinch	C		All
	3113	DZJE001206	Cover, Heater	C		All
	3117	DZJK000017	Edge Saddle	C		All
	S6	DZPA000086	Screw	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

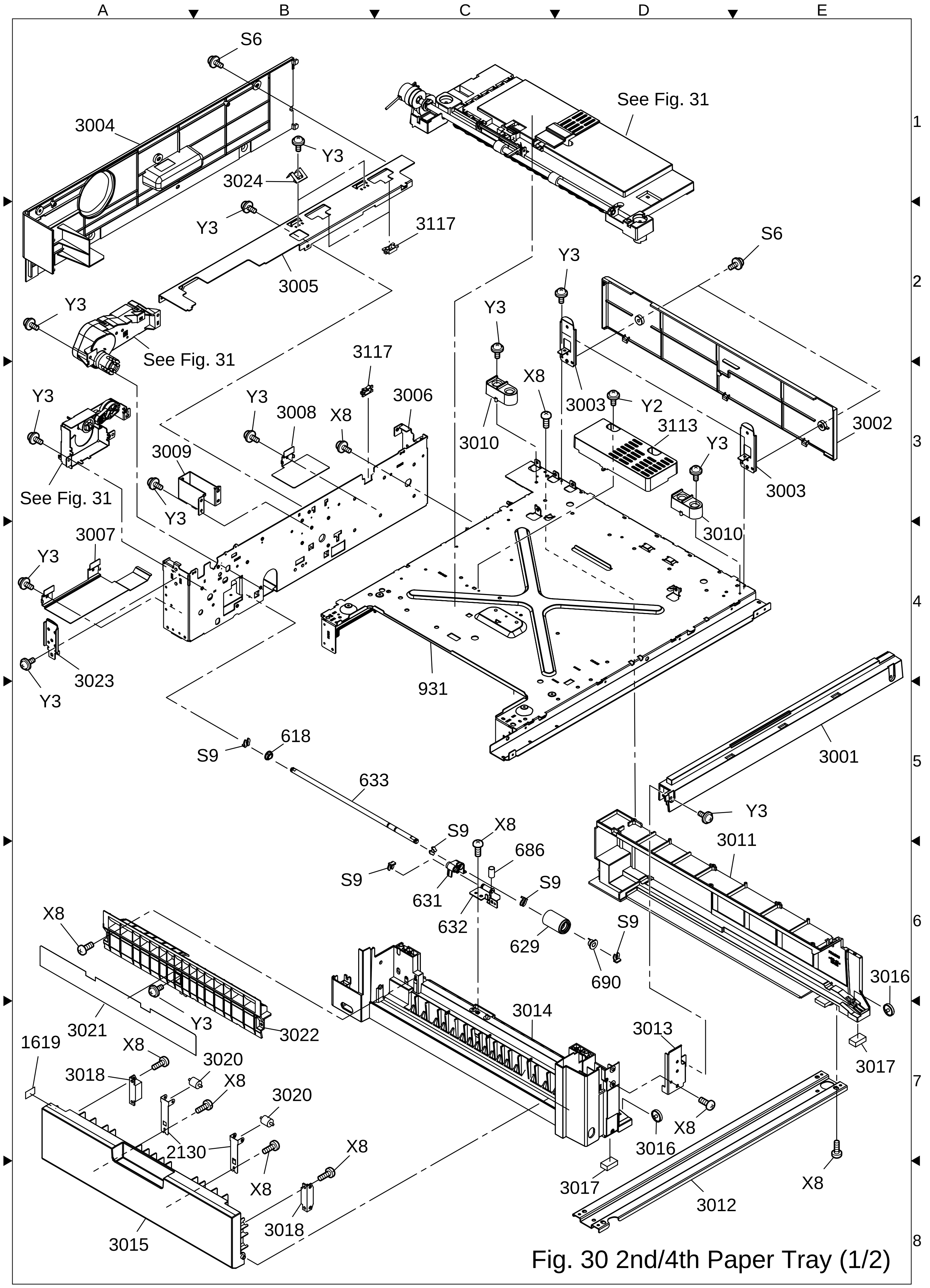
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Fig. 30 2nd/4th Paper Tray (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3101	DZJM001321	Guide, Paper Tray	C		All
	3102	DZKK000123	Actuator, 2nd Paper Feed	C		All
	3103	DZKQ000106	Spring, Return	C		All
	3104	DZLA000359	Roller, Intermediate	C		All
	3105	FFPMQ0536	Bushing, 8 Metal	C		All
	3106	DZLF000740	Gear 1, OP Paper Tray Idle	C		All
	3108	DZKK000128	Arm, OP Paper Tray Connect	C		All
	3109	DZKQ000115	Spring, OP Drive	C		All
	3110	DZLF000726	Gear 1, Exit Idle	C		All
	3111	DZLF000741	Gear 3, OP Paper Tray Idle	C		All
	3112	DZHP009928	Assembly, OP Paper Tray Plate	C		All
	3113	DZJE001206	Cover, Heater	C		All
	3114	DZJE001205	Holder, Heater	C		All
	3115	DZJK000067	Clamp	C		All
	3116	DZJK000068	Clamp	C		All
	3117	DZJK000017	Edge Saddle	C		All
	3118	FFPHQ0063	Coupling 2	C		All
	3119	FFPFJ00441	Ring, Stopper	C		All
	3120	DZLF000733	Gear, Lift Up Coupling	C		All
	3121	FFPMF10281	Gear 2, Lift Up	C		All
	3122	FFPMF1029	Gear 3, Lift Up	C		All
	3123	DZLF000734	Gear 1, Lift Up	C		All
	3124	DZJA001412	Case B, Lift Up	C		All
	3125	FFPMF1031B	Gear, Worm	C		All
	3127	DZJH000066	Spacer, PCB	C		All
	3128	DZJH000026	Spacer, PCB	C		All
	3132	DZTY000357	Assembly, Lift Up Drive	C		All
	3133	DZJA001568	Case A, Lift Up	C		All
	3135	DZKN000412	Spring, Lift Up	C		All
	3136	DZLF000732	Gear, Lift Up 2	C		All
	3137	DZJM001076	Sheet	C		All
⚠	3138	PJWQF2120PB	Assembly, Lift Motor	C		All
	131	DZAL000211	Sensor, Photo	C		All
⚠	424	FFPCP0034	Heater	C		All
	425	DZHD000036	Sleeve, Heater	C		All
	603	DZLM000006	Bushing 2, P6L5	C		All
	607	DZKL000083	Lever, Paper Exit Sensor	C		All
	611	DZKK000126	Latch, Arm	C		All
	614	DZKQ000110	Spring, Latch	C		All
	616	DZJF000651	Guide, Front	C		All
	617	DZJF000668	Guide, Feed Roller	C		All
	619	DZLA000363	Roller, Pickup	C	PM	All
	620	DZKG000384	Shaft, Pickup	C		All

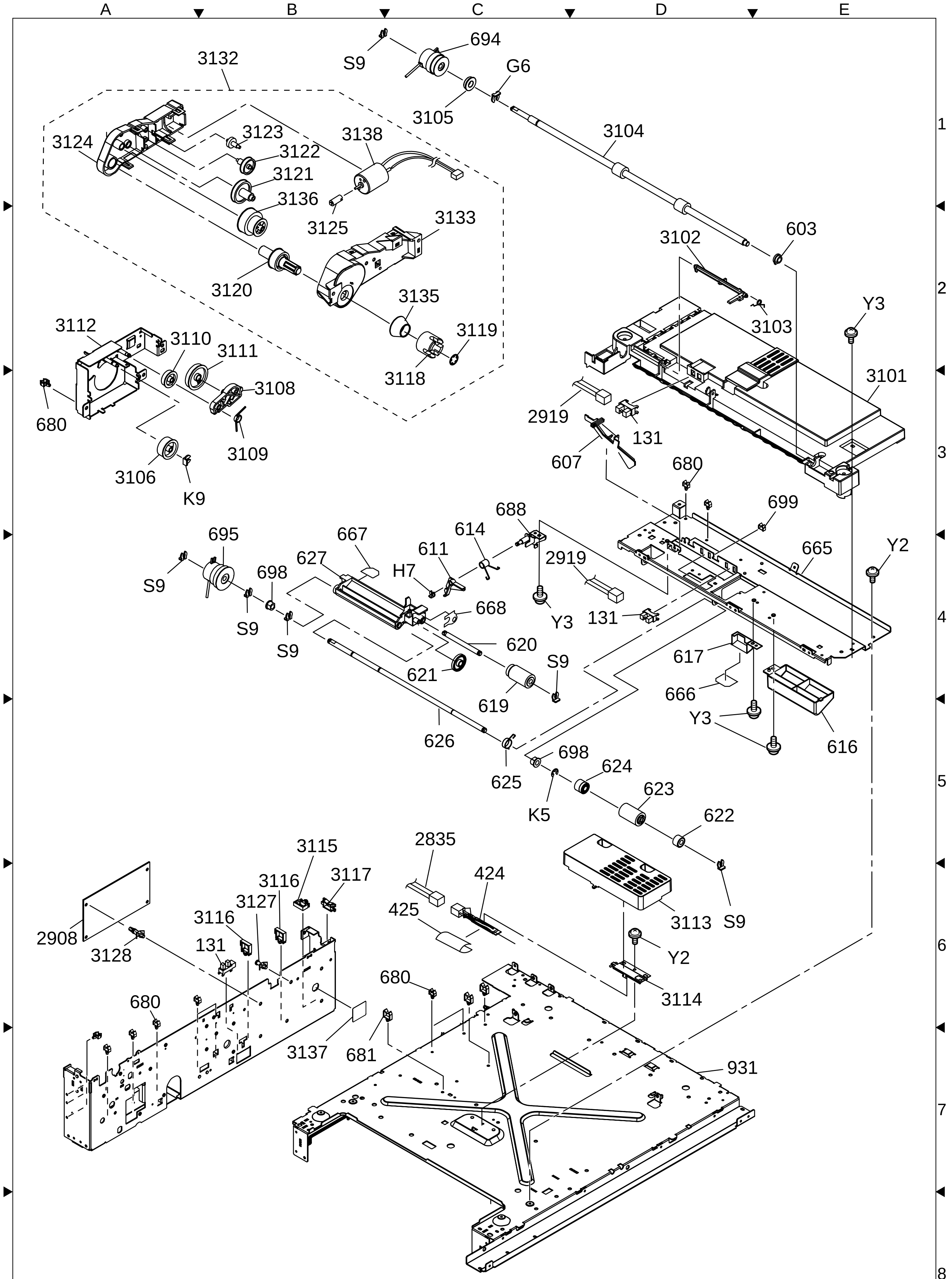
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Fig. 31 2nd/4th Paper Tray (2/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	621	DZLF000711	Gear, Pickup Idler	C		All
	622	DZLG000035	Clutch, One-way	C		All
	623	DZLA000360	Roller, Feed	C	PM	All
	624	DZLF000710	Gear, Pickup Drive	C		All
	625	DZKQ000107	Spring, Pickup	C		All
	626	DZKG000383	Shaft, Feed	C		All
	627	DZJA001402	Bracket, Pickup	C		All
	665	DZJB000438	Stay Feed	C		All
	666	DZJM001378	Film, Guide	C		All
	667	DZJM001381	Sheet, Guide	C		All
	668	DZJM001388	Film, Guard	C		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	688	DZJA001427	Assembly, Latch Bracket	C		All
⚠	694	L9EAAK000009	Clutch, Micro 2	C		All
⚠	695	L9EAAK000010	Clutch, Micro 1	C		All
	698	FFPMQ0649	Bushing	C		All
	699	DZJK000057	Clamp	C		All
	931	DZMC000821	Plate, Base	C		All
	2835	DZFP001642	Harness, PTC-AC 4	C		All
	2908	DZEC103665	PC Board, CST2	C	RTL/PbF	All
	2919	DZFP001614	Harness, Paper Tray Sensor 2	C		All
	G6	FFPFJ0039B	Snap Ring	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	K5	XUC5VM	E-Ring	C		All
	K9	FFPFJ0043B	Snap Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

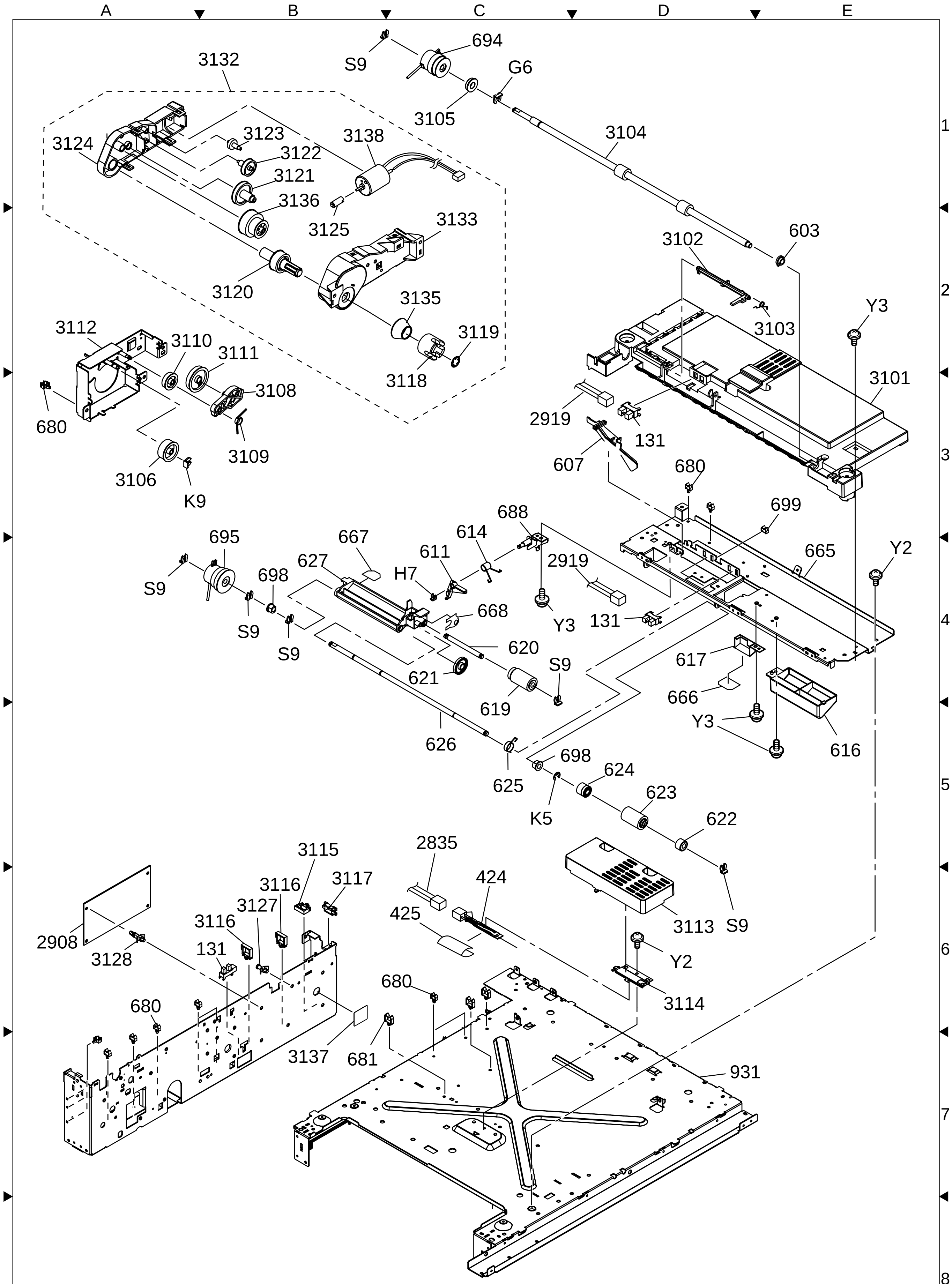
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Fig. 31 2nd/4th Paper Tray (2/2)

5.19. 3rd Paper Tray

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3001	DZJE001196	Cover, Front Paper Tray	C		All
	3002	DZMA004431	Cover, Right Paper Tray	C		All
	3003	DZJD000040	Bracket, Right Post	C		All
⚠	3004	DZMA004432	Cover, Rear Paper Tray	C		All
	3005	DZJB000436	Bracket, Rear Upper	C		All
	3006	DZJB000437	Bracket, Rear Center	C		All
	3007	DZMB000024	Bracket, Rear Lower Right	C		All
	3008	DZMB000025	Bracket, Rear Lower Left	C		All
	3009	DZJA001400	Bracket, Drive Cover	C		All
	3010	DZJH000126	Bracket, Paper Feed	C		All
	3011	DZJB000427	Base, Right Paper Tray	C		All
	3012	DZJB000428	Bracket, Paper Tray Base	C		All
	3013	DZJD000042	Bracket, Front Post	C		All
	3014	DZJB000435	Base, Left Paper Tray	C		All
	3015	DZMB000026	Cover, Jam Access	C		All
	3016	DZLA000198	Roller, Paper Tray	C		All
	3017	DZJF000489	Leg, Gum	C		All
	3018	DZMG000041	Catcher, Magnet	C		All
	3020	DZKP000084	Spring, Pinch Roller	C		All
	3021	DZJM001349	Sheet, Paper Guide	C		All
	3022	DZJM001322	Guide, Paper	C		All
	3023	DZJD000041	Bracket, Left Post	C		All
	3024	DZKP000388	Spring, Ground	C		All
	618	DZLM000213	Bushing	C		All
	629	DZLA000366	Roller, Reverse	C	PM	All
	631	DZKK000129	Arm, Reverse	C		All
	632	DZJA001420	Bracket, Reverse	C		All
	633	DZKG000405	Shaft, Reverse	C		All
	686	DZKN000416	Spring, Reverse	C		All
	690	DZHP010738	Torque Limiter 1	C	PM	All
	931	DZMC000821	Plate, Base	C		All
	1619	PJRCC0004Z	Label, Sensor	C		All
	2130	DZLA000080	Roller 1, Pinch	C		All
	3113	DZJE001206	Cover, Heater	C		All
	3117	DZJK000017	Edge Saddle	C		All
	S6	DZPA000086	Screw	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	X8	XTB3+8GFJ	Screw	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

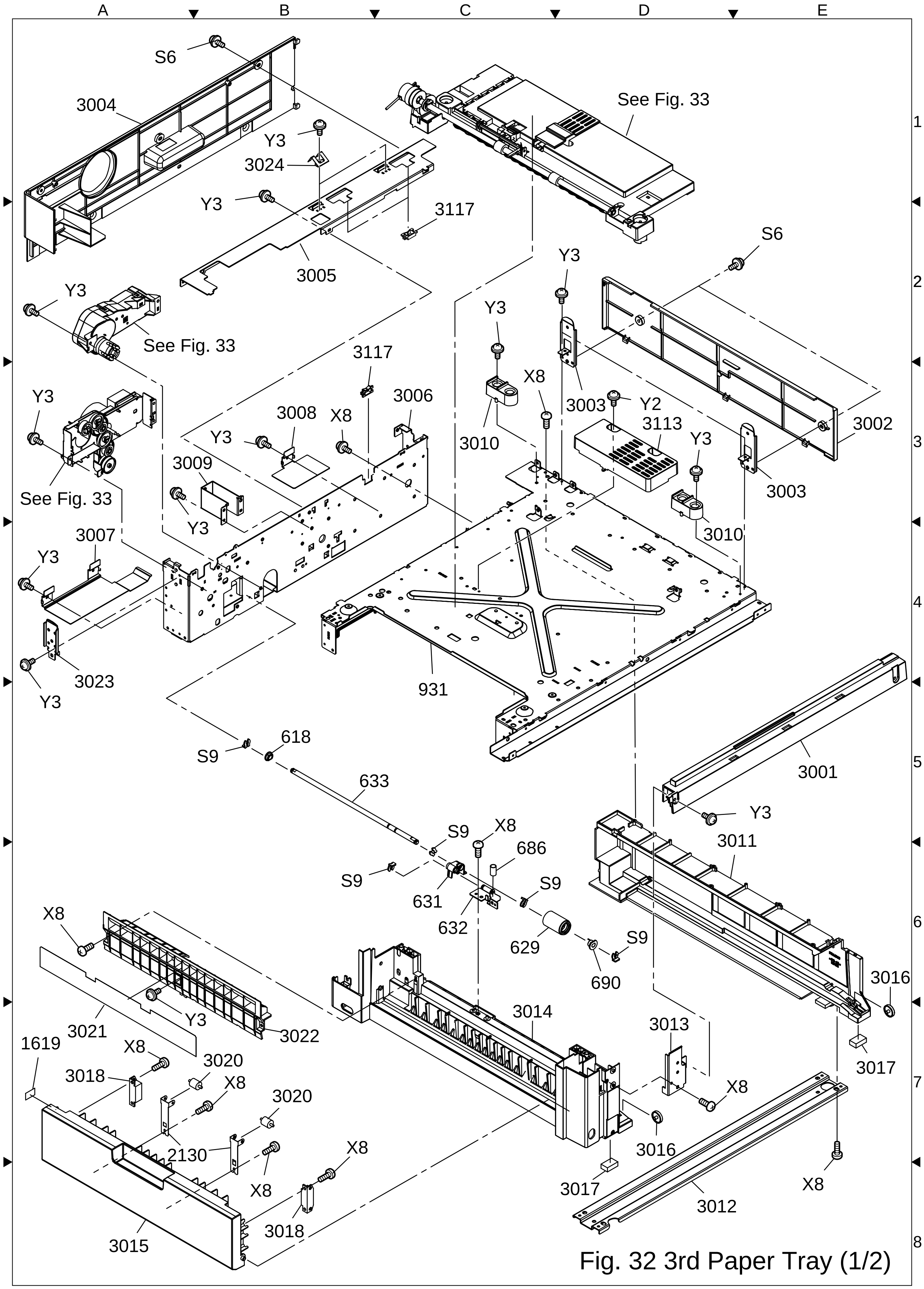
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Fig. 32 3rd Paper Tray (1/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3101	DZJM001321	Guide, Paper Tray	C		All
	3102	DZKK000123	Actuator, 2nd Paper Feed	C		All
	3103	DZKQ000106	Spring, Return	C		All
	3104	DZLA000359	Roller, Intermediate	C		All
	3105	FFPMQ0536	Bushing, 8 Metal	C		All
	3106	DZLF000740	Gear 1, OP Paper Tray Idle	C		All
	3111	DZLF000741	Gear 3, OP Paper Tray Idle	C		All
	3113	DZJE001206	Cover, Heater	C		All
	3114	DZJE001205	Holder, Heater	C		All
	3115	DZJK000067	Clamp	C		All
	3116	DZJK000068	Clamp	C		All
	3117	DZJK000017	Edge Saddle	C		All
	3118	FFPHQ0063	Coupling 2	C		All
	3119	FFPFJ00441	Ring, Stopper	C		All
	3120	DZLF000733	Gear, Lift Up Coupling	C		All
	3121	FFPMF10281	Gear 2, Lift Up	C		All
	3122	FFPMF1029	Gear 3, Lift Up	C		All
	3123	DZLF000734	Gear 1, Lift Up	C		All
	3124	DZJA001412	Case B, Lift Up	C		All
	3125	FFPMF1031B	Gear, Worm	C		All
	3127	DZJH000066	Spacer, PCB	C		All
	3128	DZJH000026	Spacer, PCB	C		All
	3132	DZTY000357	Assembly, Lift Up Drive	C		All
	3133	DZJA001568	Case A, Lift Up	C		All
⚠	3134	DZGG000072	Motor	C		All
	3135	DZKN000412	Spring, Lift Up	C		All
	3136	DZLF000732	Gear, Lift Up 2	C		All
	3137	DZJM001076	Sheet	C		All
⚠	3138	PJWQF2120PB	Assembly, Lift Motor	C		All
	3301	DZJB000446	Ring, Gap	C		All
	3302	DZLF000743	Gear 2, 3rd OP Drive	C		All
	3303	DZLF000742	Gear 1, 3rd OP Drive	C		All
	3304	DZHP009929	Assembly, 3rd OP Drive Plate	C		All
	131	DZAL000211	Sensor, Photo	C		All
⚠	424	FFPCP0034	Heater	C		All
	425	DZHD000036	Sleeve, Heater	C		All
	603	DZLM000006	Bushing 2, P6L5	C		All
	607	DZKL000083	Lever, Paper Exit Sensor	C		All
	611	DZKK000126	Latch, Arm	C		All
	614	DZKQ000110	Spring, Latch	C		All
	616	DZJF000651	Guide, Front	C		All
	617	DZJF000668	Guide, Feed Roller	C		All
	619	DZLA000363	Roller, Pickup	C	PM	All

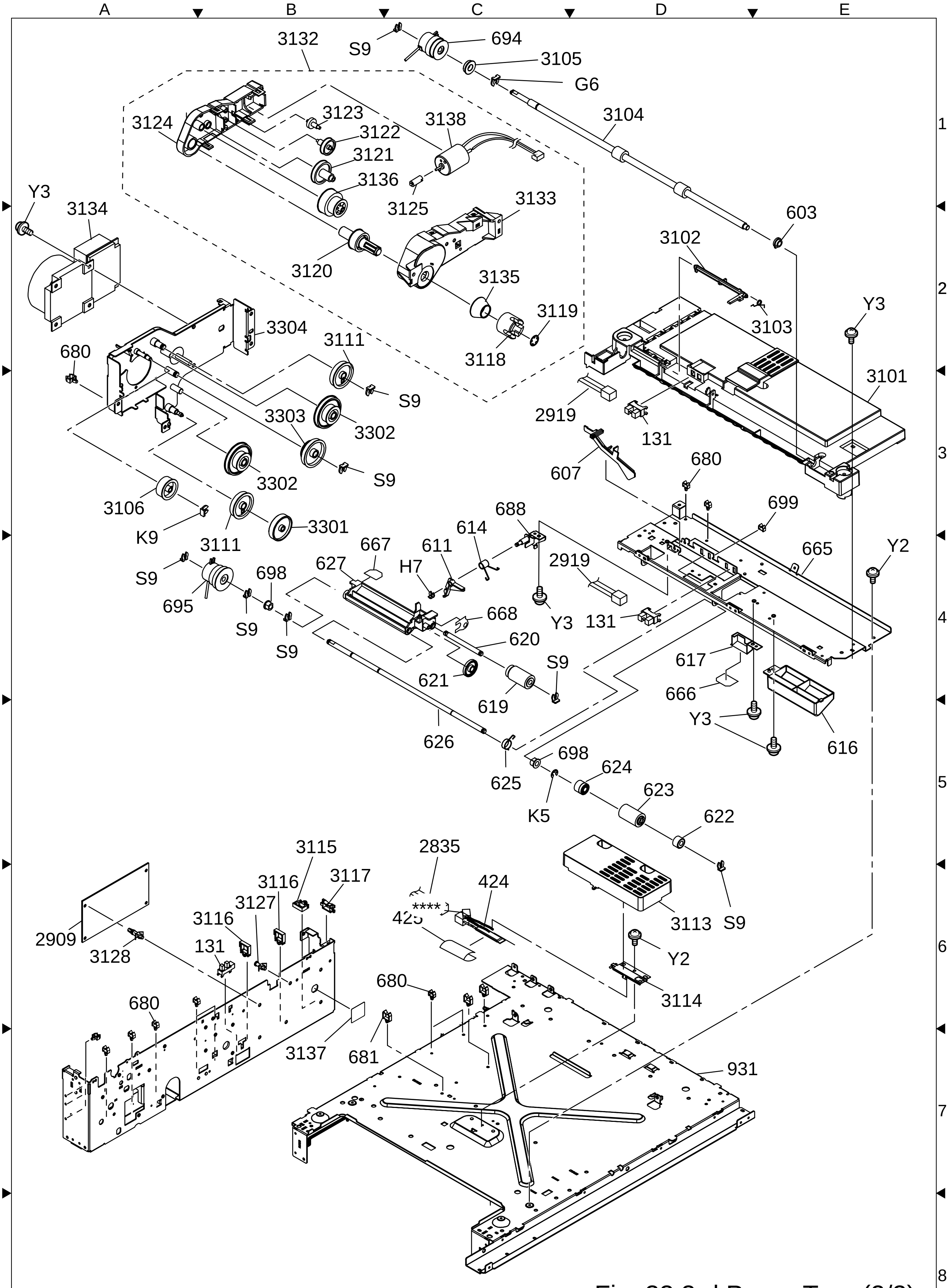
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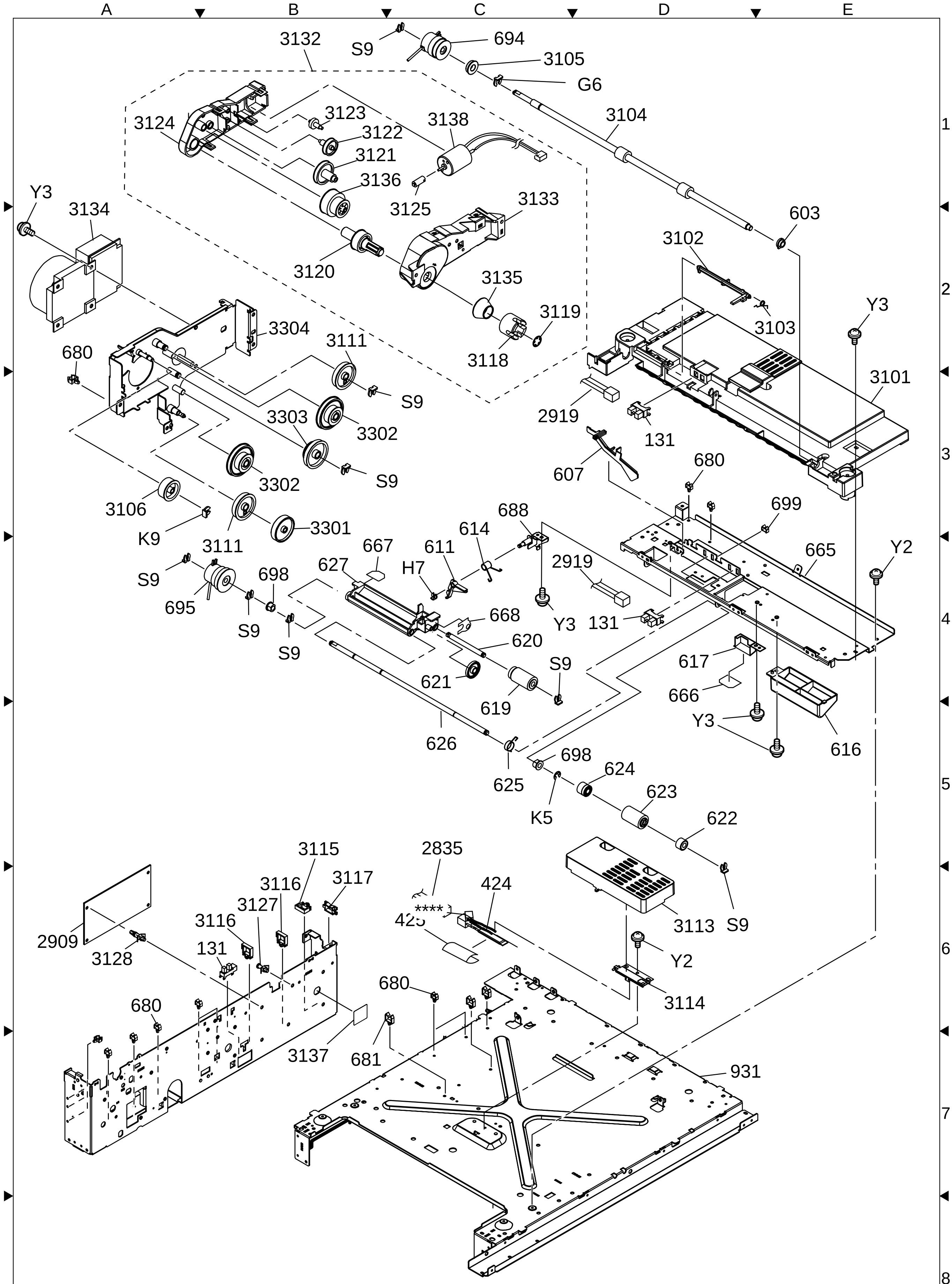
Fig. 33 3rd Paper Tray (2/2)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	620	DZKG000384	Shaft, Pickup	C		All
	621	DZLF000711	Gear, Pickup Idler	C		All
	622	DZLG000035	Clutch, One-way	C		All
	623	DZLA000360	Roller, Feed	C	PM	All
	624	DZLF000710	Gear, Pickup Drive	C		All
	625	DZKQ000107	Spring, Pickup	C		All
	626	DZKG000383	Shaft, Feed	C		All
	627	DZJA001402	Bracket, Pickup	C		All
	665	DZJB000438	Stay Feed	C		All
	666	DZJM001378	Film, Guide	C		All
	667	DZJM001381	Sheet, Guide	N		All
	668	DZJM001388	Film, Guard	N		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	688	DZJA001427	Assembly, Latch Bracket	C		All
⚠	694	L9EAAK000009	Clutch, Micro 2	C		All
⚠	695	L9EAAK000010	Clutch, Micro 1	C		All
	698	FFPMQ0649	Bushing	C		All
	699	DZJK000057	Clamp	C		All
	931	DZMC000821	Plate, Base	C		All
	2835	DZFP001642	Harness, PTC-AC 4	C		All
	2909	DZEC102749R	PC Board, CST3	C	RTL/PbF	All
	2919	DZFP001614	Harness, Paper Tray Sensor 2	C		All
	G6	FFPFJ0039B	Snap Ring	C		All
	H7	FFPFJ0041B	Snap Ring	C		All
	K5	XUC5VM	E-Ring	C		All
	K9	FFPFJ0043B	Snap Ring	C		All
	S9	FFPFJ0033B DZJM000171 or	Snap Ring	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All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Y2
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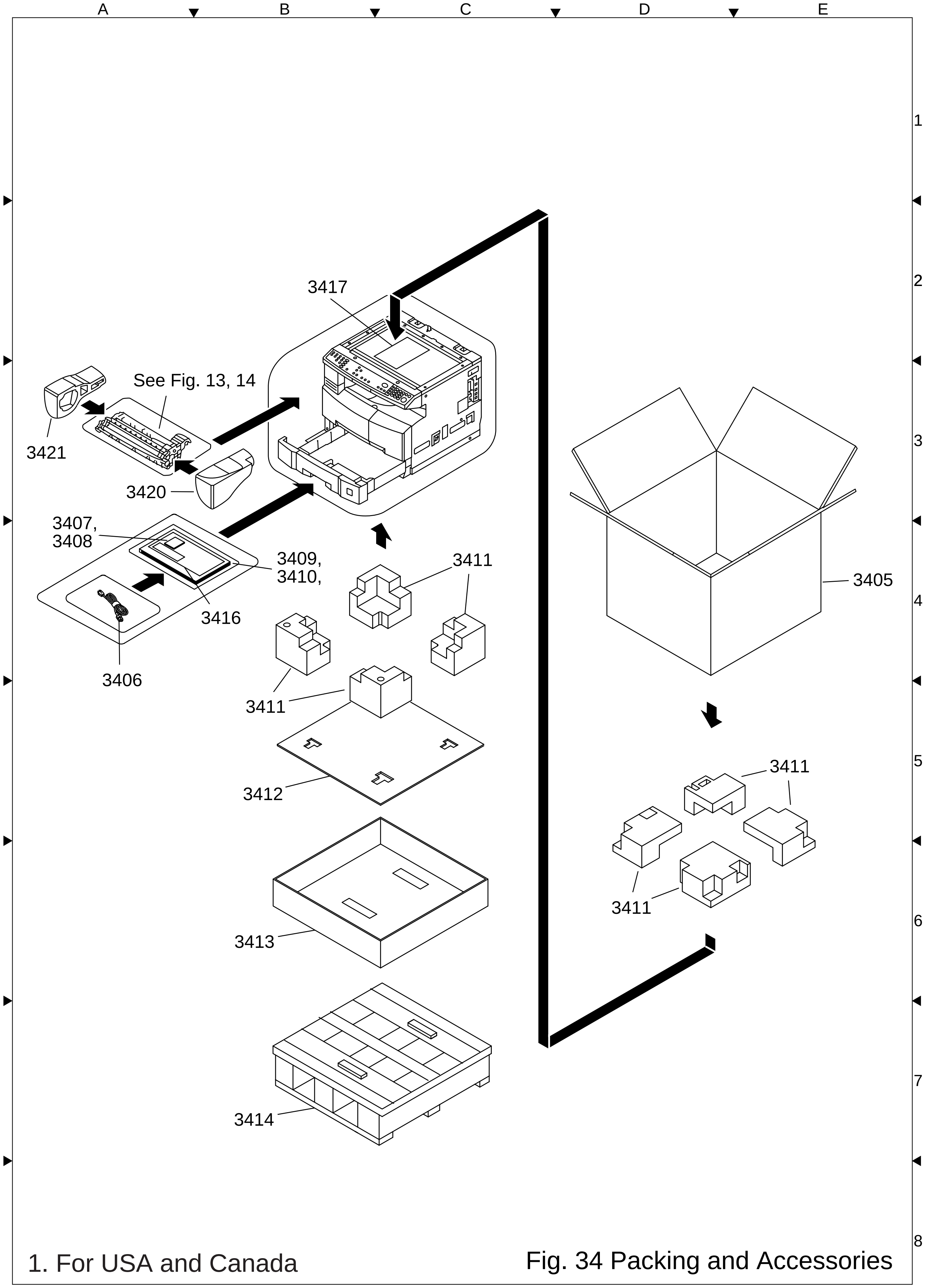
931

Fig. 33 3rd Paper Tray (2/2)

5.20. Packing and Accessories

1. For USA and Canada

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3405	PJPGC0682Z	Box	N	For DP-8020E	PU
		PJPGC0723Z				PUG
		PJPGC0687Z			For DP-8020P*	PU
		PJPGC0724Z				PUG
		PJPGC0690Z			For DP-8016P	PU
		PJPGC0725Z				PUG
⚠	3406	K2CH3DH00002	Cord, AC Power	C		PU, PUG
	3407	PJJXC0230Z	Software CD	N		PU, PUG
	3408	PJJXC0228Z	CD (For Operating Instructions)	N		PU, PUG Except PK, PT
	3409	PJQRC0172Z	Installation Instructions	N		All
⚠	3410	PJQQC0065Z	Quick Guide	N		PU, PUG
	3411	PJYCF2120PU0	Assembly, Cushion	C		PU, PUG
	3412	PJPGC0328Z	Pad	C		PU, PUG Except PK
	3413	PJPGC0371Z	Box, Bottom	C		PU, PUG
	3414	PJPAC0011Z	Palette, Wooden	C		PU, PUG
	3416	DZNK004940	Label, Paper Tray	C		PU, PUG
	3417	PJQRC0008Z	Important Notice	C		PU, PUG Except PK
	3420	PJPQC0038Z	Process, Cushion R	C		All
	3421	PJPQC0039Z	Process, Cushion L	C		All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3412
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3405
3411
3411

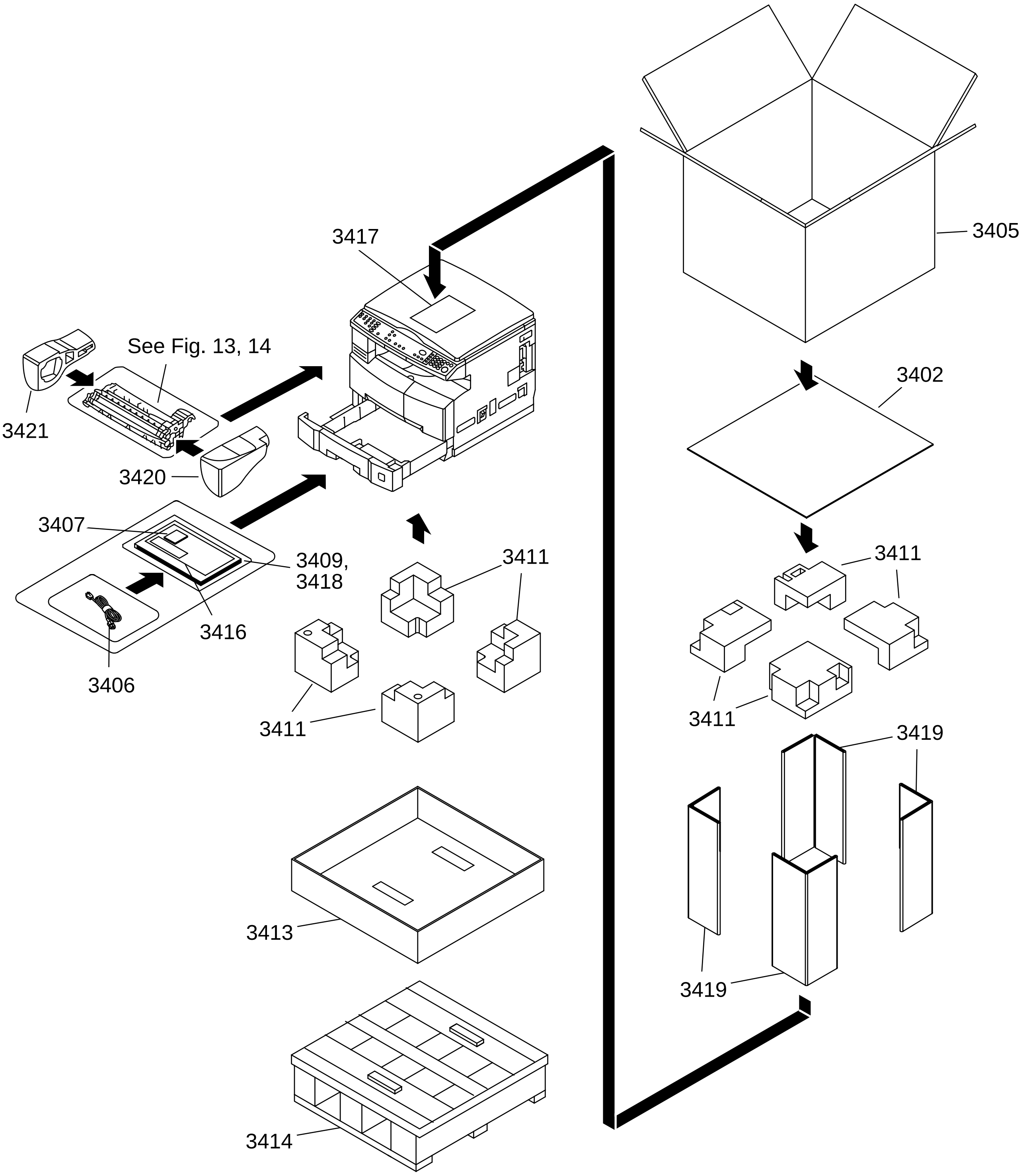
1. For USA and Canada

Fig. 34 Packing and Accessories

5.21. Packing and Accessories

2. For China

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3402	PJPAC0004Z	Pad, Top	C		PK
	3405	PJPGC0683Z	Box	N	For DP-8020E	PK
		PJPGC0688Z			For DP-8020P*	PK
		PJPGC0691Z			For DP-8016P	PK
⚠	3406	K2CK3DH00027 or	Cord, AC Power	C		PK
		DZFM000111				
	3407	PJJXC0234Z	Software CD	N		PK
	3409	PJQRC0172Z	Installation Instructions	N		All
	3411	PJYCF2120PK0	Assembly, Cushion	C		PK
	3413	PJPGC0685Z	Box, Bottom	N		PK
	3414	PJPAC0005Z	Palette, Wooden	C		PK
	3416	DZNK004942	Label, Paper Tray	C		PK Except PU, PUG
	3417	PJQRC0025Z	Important Notice	C		PK
⚠	3418	PJQMC0700Z	Operating Instructions	N		PK
	3419	PJPGC0684Z	Angle, L	N		PK
	3420	PJPQC0038Z	Process, Cushion R	C		All
	3421	PJPQC0039Z	Process, Cushion L	C		All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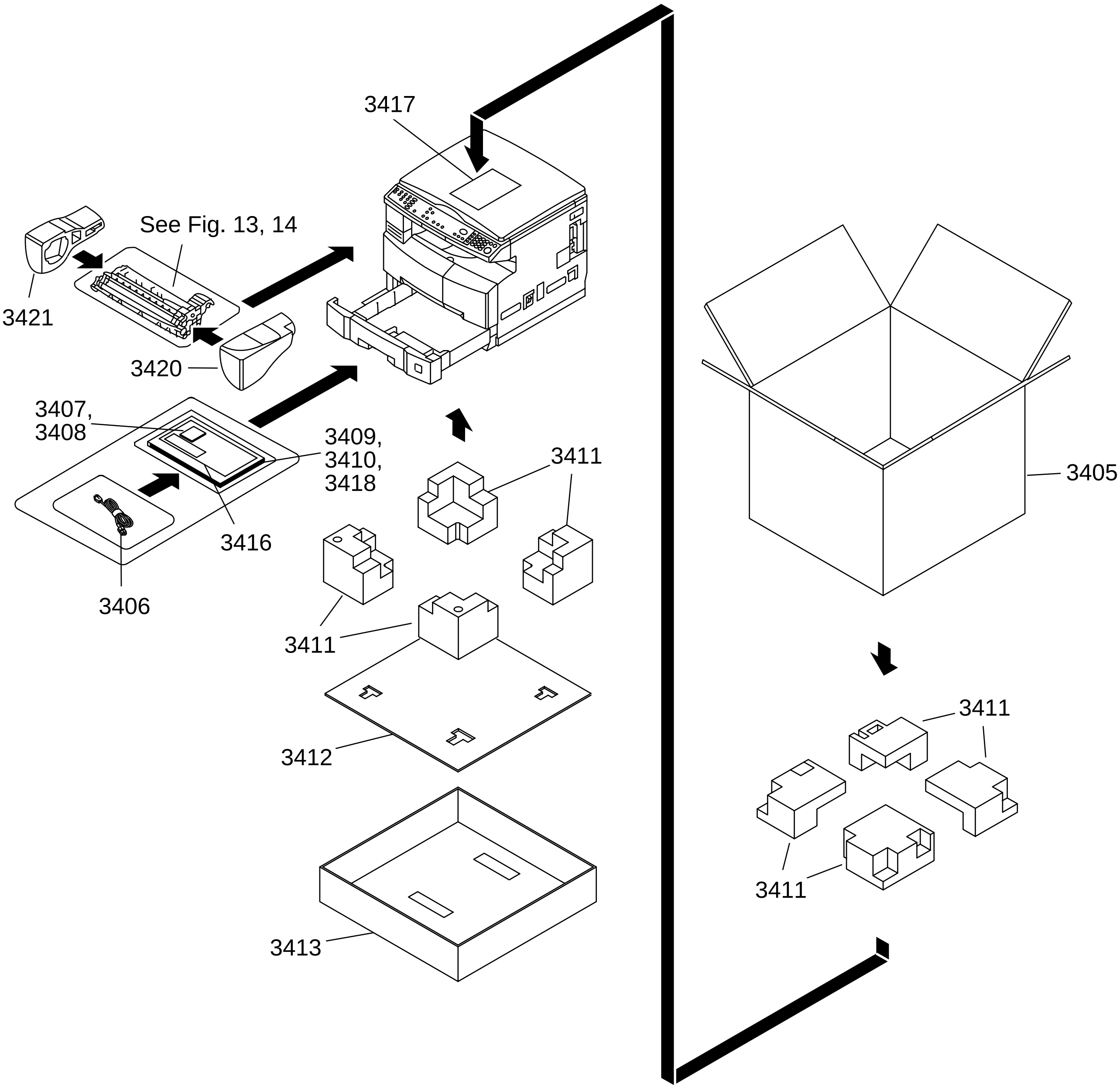
2. For China

Fig. 34 Packing and Accessories

5.22. Packing and Accessories

3. For Other Destinations (except USA, Canada and China)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3405	PJPGC0681Z	Box	N	For DP-8020E	Except PU, PUG, PK
		PJPGC0686Z			For DP-8020P*	Except PU, PUG, PK
		PJPGC0689Z			For DP-8016P	Except PU, PUG, PK
⚠	3406	K2CH3DH00002	Cord, AC Power	C		PT
		DZFM000115				PA
		K2CM3DH00013				PF, PM, PP PS
		K2CT3DH00023				PB,PY
	3407	PJJXC0232Z	Software CD	N		Except PU, PUG, PK
	3408	PJJXC0228Z	CD (For Operating Instructions)	N		Except PK, PT
	3409	PJQRC0172Z	Installation Instructions	N		All
⚠	3410	PJQQC0066Z	Quick Guide	N		PA, PB, PF, PM, PS
		PJQQC0069Z				PP
		PJQQC0070Z				PY
	3411	PJYCF2120PB0	Assembly, Cushion	C		Except PU, PUG, PK
	3412	PJPGC0328Z	Pad	C		Except PK
	3413	PJPGC0327Z	Box, Bottom	C		Except PU, PUG, PK
	3416	DZNK004942	Label, Paper Tray	C		Except PU, PUG, PK
	3417	PJQRC0008Z	Important Notice	C		Except PK
	3418	PJQMC0713Z	Operating Instruction	N		PT
	3420	PJPQC0038Z	Process, Cushion R	C		All
	3421	PJPQC0039Z	Process, Cushion L	C		All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3407,
3408
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3410,
3418
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3405
3416
3406
3411
3411
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3411
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3. For Other Destinations
(except USA, Canada and China)

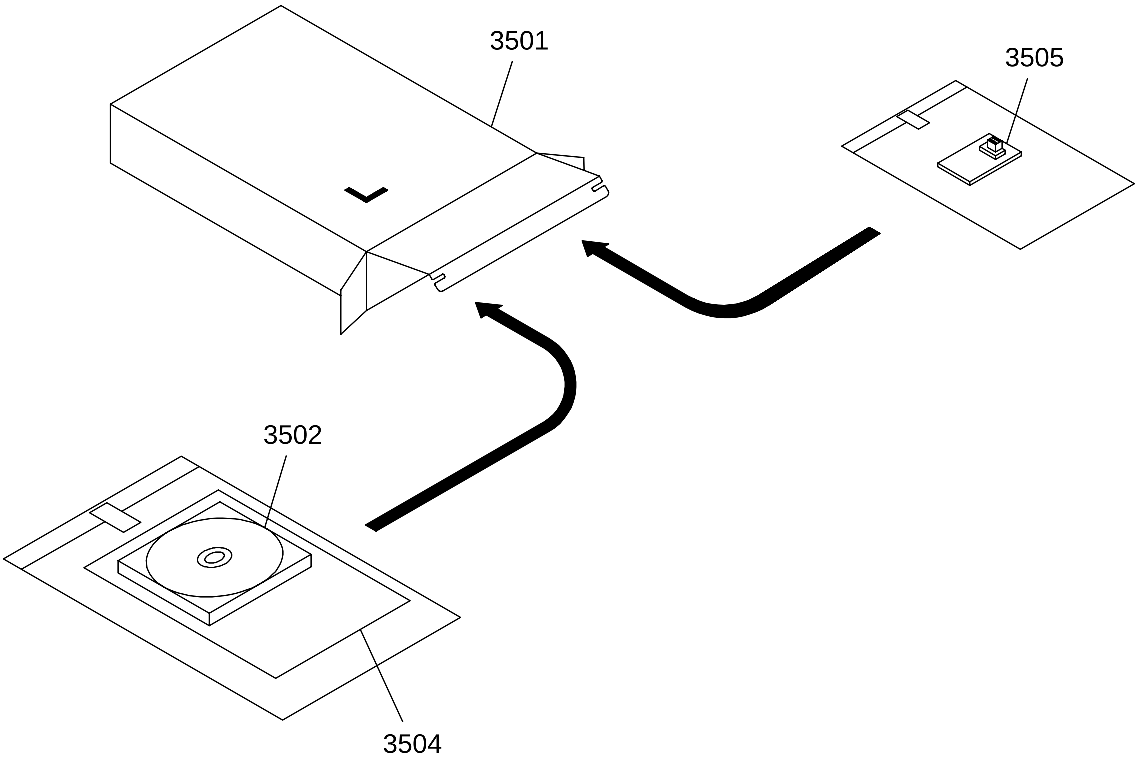
Fig. 34 Packing and Accessories

5.23. Printer Controller Module for PCL6

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3501	DZRB000143	Box	C		All
	3502	PJJXC0257Z	Software CD	N		PU, PUG
		PJJXC0259Z				Other
		PJJXC0261Z				PK
	3504	PJQRC0182Z	Installation Instructions	N		All
	3505	----------	Hardware Key			

< Europe only >

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3501	DZRB000143	Box	C		All
	3502	PJJXC0257Z	Software CD	N		PU, PUG
		PJJXC0259Z				Other
		PJJXC0261Z				PK
	3503	DZSM000756	Installation Instructions	C		Europe only
	3504	PJQRC0182Z	Installation Instructions	N		All
	3505	----------	Hardware Key			
	822	DZJH000084	Supporter, PC Board	C		Europe only
	2805	DZEC103692	PC Board, FRM8	C	RTL/PbF	Europe only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3502
3504

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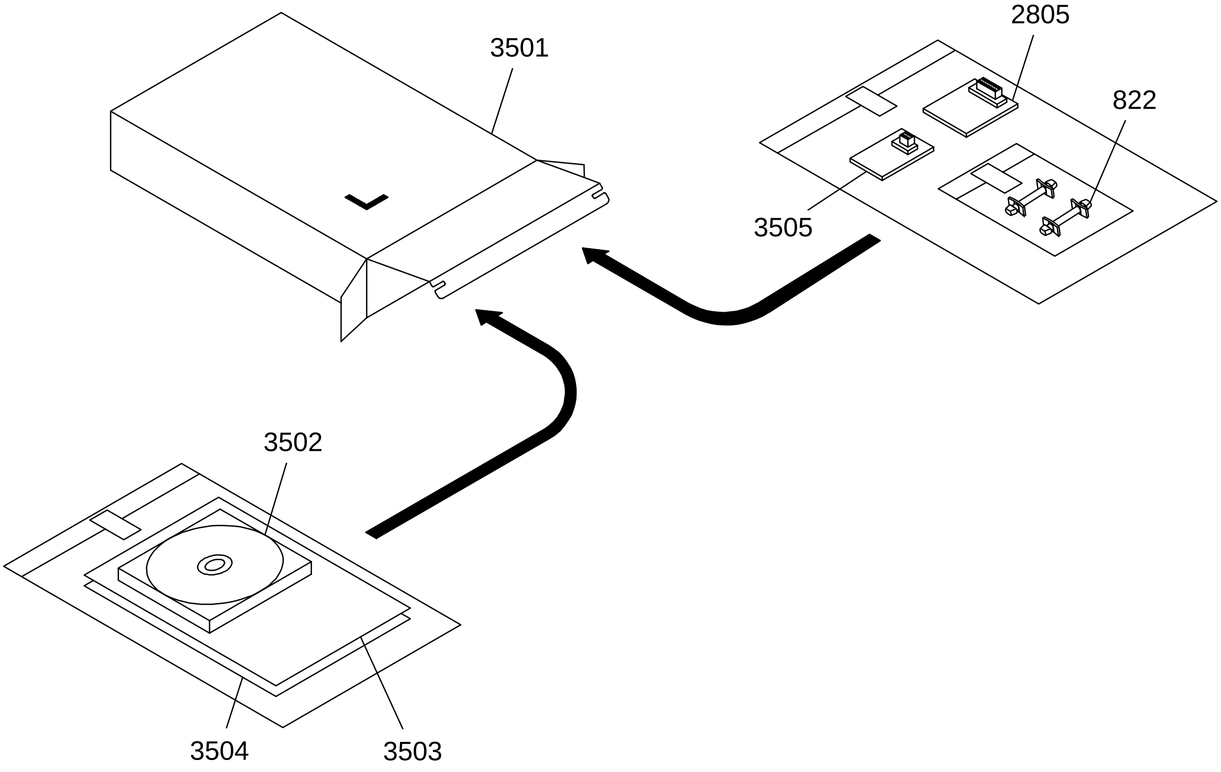
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2805
3501
822
3505
3502
3504
3503

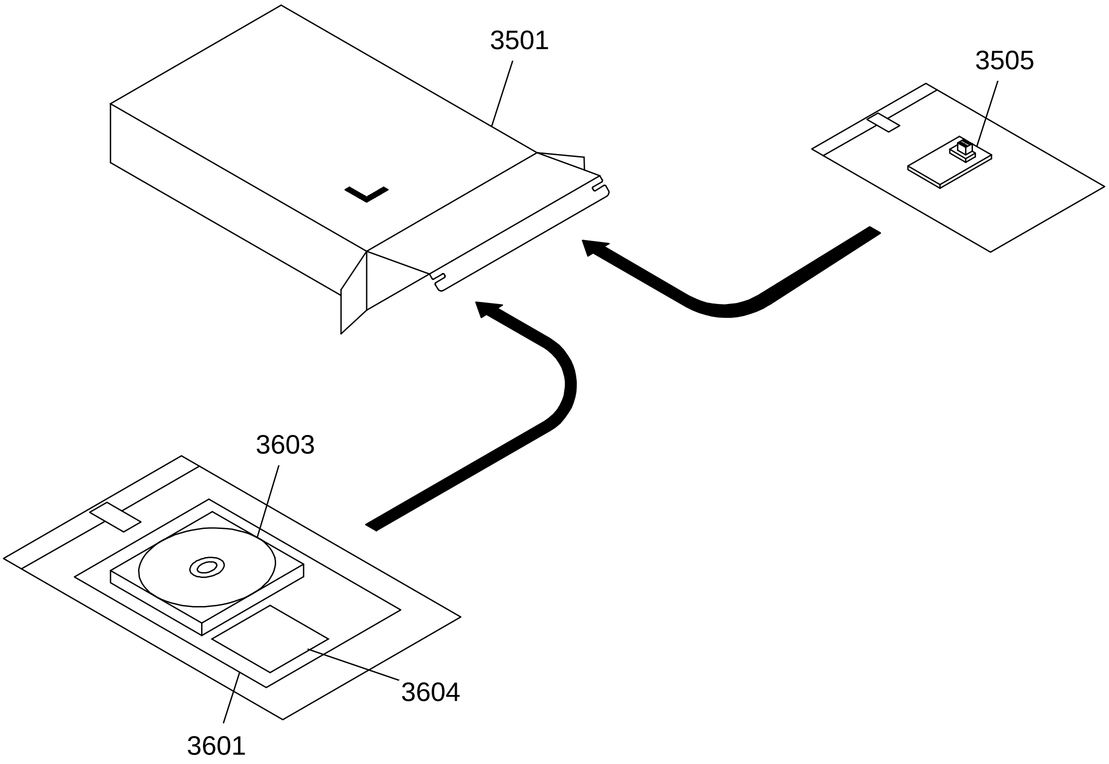
Fig. 35 Printer Controller Module for PCL6

5.24. Printer Controller Module for PS/PCL6

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3601	PJQRC0183Z	Installation Instructions	N		All
	3603	PJJXC0263Z	Software CD	N		PU, PUG
		PJJXC0265Z				Other
		PJJXC0267Z				PK
	3604	----------	Label, Adobe Postscript 3			
	3501	DZRB000143	Box	C		All
	3505	----------	Hardware Key			

< Europe only >

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3601	PJQRC0183Z	Installation Instructions	N		All
	3603	PJJXC0263Z	Software CD	N		PU, PUG
		PJJXC0265Z				Other
		PJJXC0267Z				PK
	3604	----------	Label, Adobe Postscript 3			
	822	DZJH000084	Supporter, PC Board	C		Europe only
	2805	DZEC103692	PC Board, FRM8	C	RTL/PbF	Europe only
	3501	DZRB000143	Box	C		All
	3503	DZSM000756	Installation Instructions	C		Europe only
	3505	----------	Hardware Key			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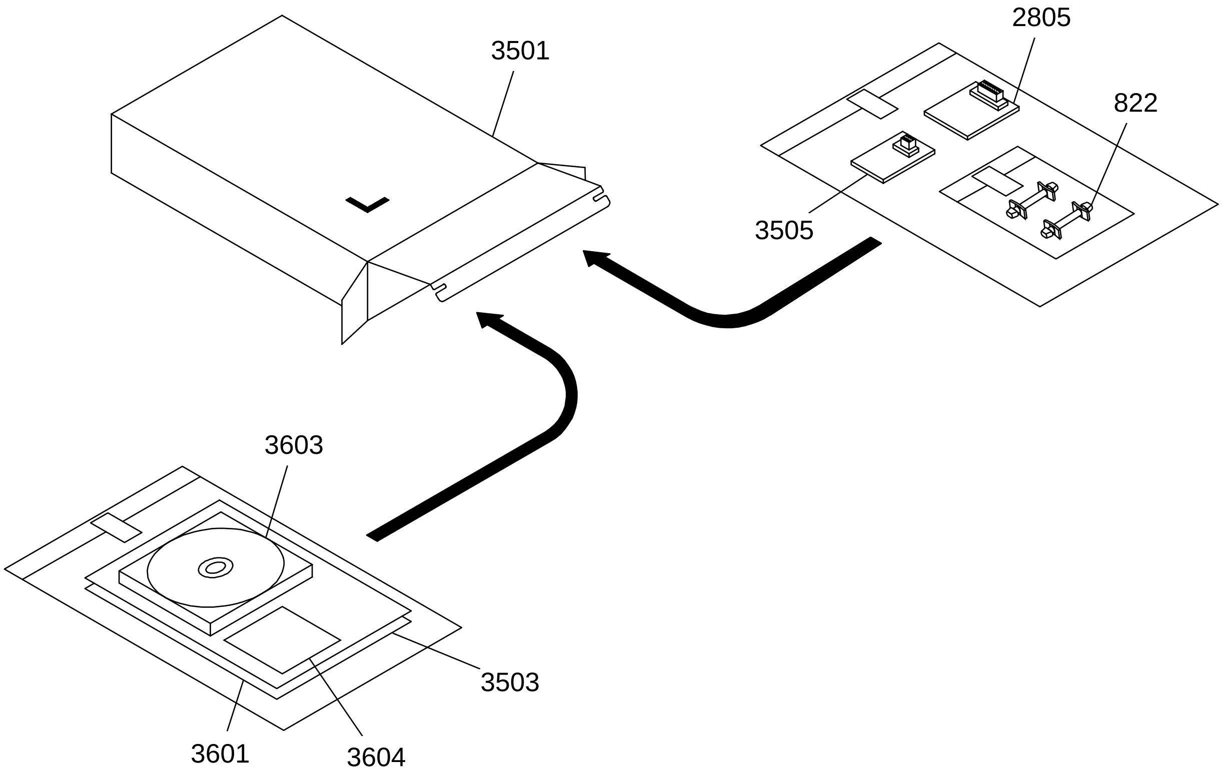
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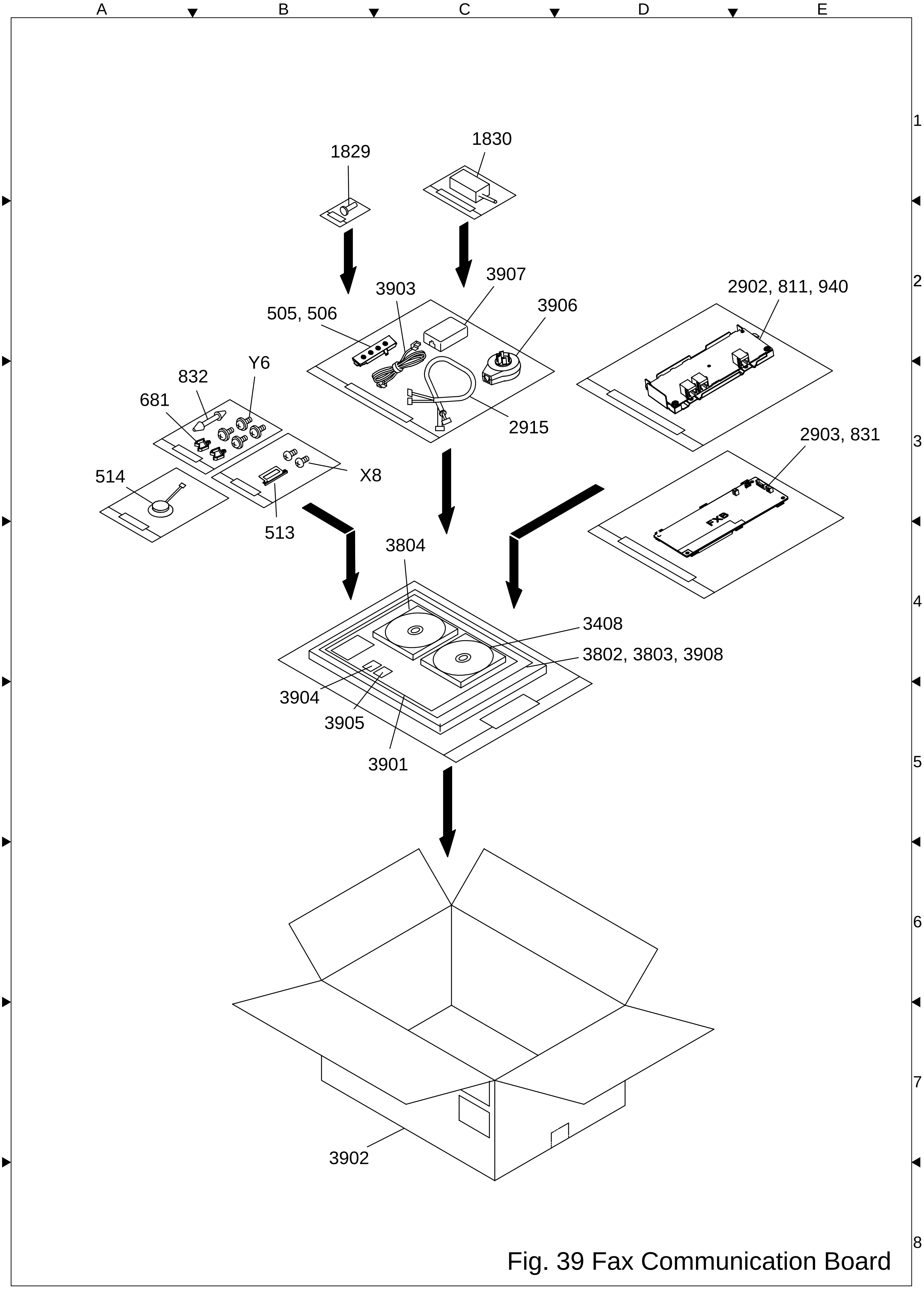
Fig. 36 Printer Controller Module for PS / PCL6

5.25. Fax Communication Board

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	3901	DZSM000813	Installation Instructions	C		All
	3902	DZRB000733	Box, Carton	C		All
	3903	PJJWC0009Z	Cord, Line	C		ABR, AKR, AWR
		PJJWC0010Z				AGR
		PJJWC0011Z				AMR
		PFJA05B001Y				ARR,AVR
		PFJA04B006Y				ENR
		DZFN000136				AER, AJR, ATR AUR, EER, YAR YCR, YGR, YMR YPR, YRR, YSR YTR, YVR, YWR YXR, YYR
		DZFN000104				ARR
	3904	DZNK005454	Label, TEL	C		All
	3905	DZNK005455	Label, LINE	C		All
	3906	DZQE000003	Rosette	C		YCR, YGR, YSR YVR, YAR, YYR
		DZQE000005				APR
	3907	PFJA05B001Y	Plug, PTT	C		AVR
		DZFB000022				AAR
		DZFB000001				ARR
		DZFB000035 or				ARR
		DZFB000010				ALR
		DZFB000009 or				ALR
		K2ME4B000001		N		AMR
	505	DZJE001173	Cover, Key	C	For DP-8020E/8020P*	AUR, Other
		DZJE001213				YVR
		DZJE001214				AER
		DZJE001216				AVR
	506	DZNA001042	Key	C	For DP-8020E/8020P*	All
	513	DZKP000365	Spring, Speaker	C		All
⚠	514	DZHP010070	Assembly, Speaker	C		All
	681	DZJK000023	Clamp	C		All
	811	DZJA001443	Bracket, MJR PCB	C		All
	831	DZJK000079	Clamp	C		All
	832	DZJH000063	Spacer, PCB	C		All
	940	DZJK000070	Clamp	C		All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681
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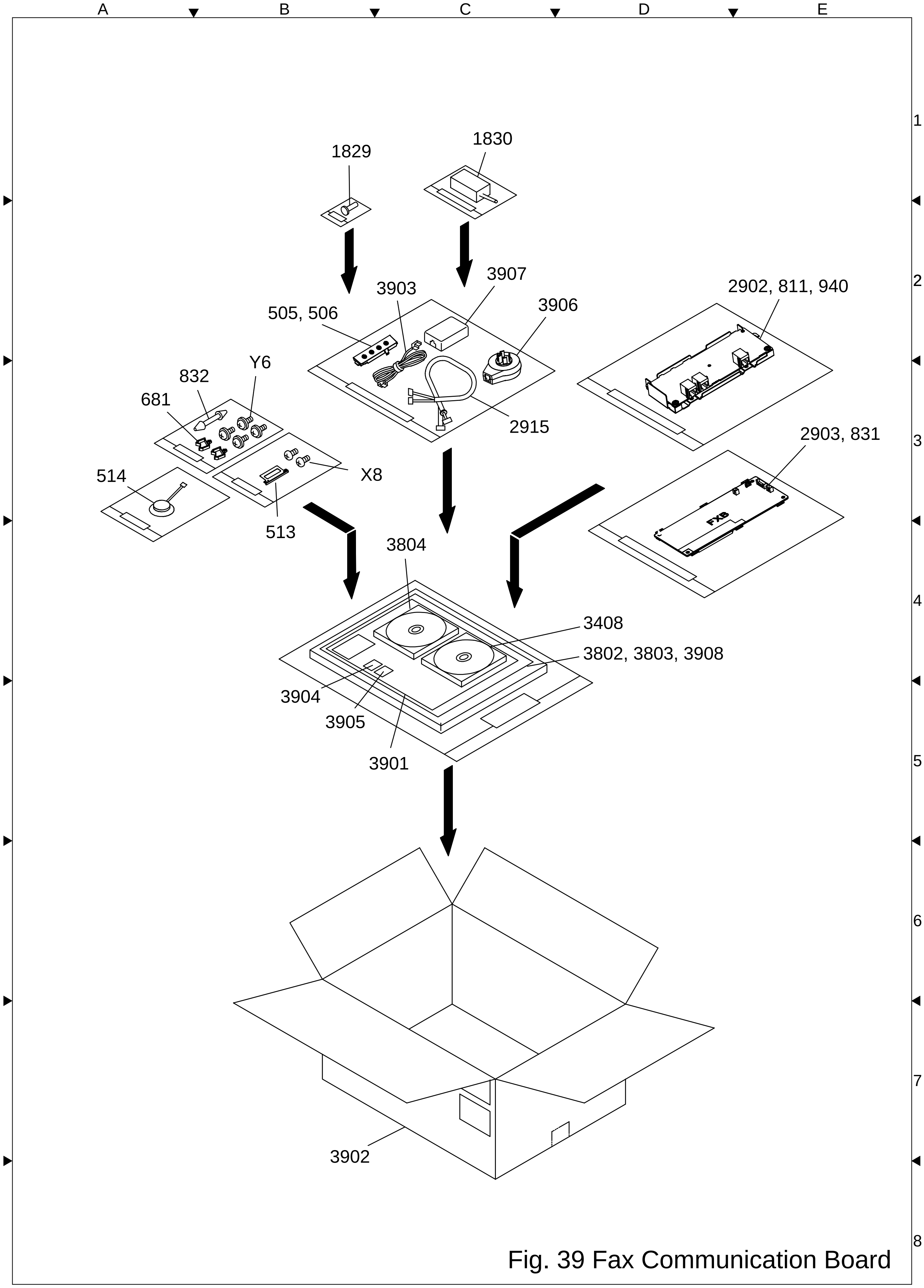
2903, 831
514
X8
513
3804
3408
3802, 3803, 3908
3904
3905
3901
3902

Fig. 39 Fax Communication Board

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	1829	DZHP000237	Assembly, Stamp	C	For DP-8020E/8020P*	AUR
		DZHP000240				Other
	1830	DZHP005513	Unit, Stamp	C	For DP-8020E/8020P*	All
⚠	2902	Depends on Destination	PC Board, MJR	C	See Sect. 5.17 PC Boards (RTL/PbF)	
⚠	2903	Depends on Destination	PC Board, FXB	C	See Sect. 5.17 PC Boards (RTL/PbF)	
	2915	DZFP001630	Harness, MJR-FXB	C		All
	3909	DZHP010280	CD	C		Except YVR, AER
⚠	3802	DZSD002231	Quick Guide	C		AUR, YYR
		DZSD002234				YPR, YRR
		DZSD002232				Other
⚠	3803	DZSD002217	Operating Instructions	C		YVR
		DZSD002219				AER
	3804	PJJXC0042Z	Firmware CD	C		All
	3908	PJQHC0189Z	Notice	N		All
	X8	XTB3+8GFJ	Screw	C		All
	Y6	XTW3+6LFJR	Screw	C		All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Y6
832
681
2915
2903, 831
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X8
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3802, 3803, 3908
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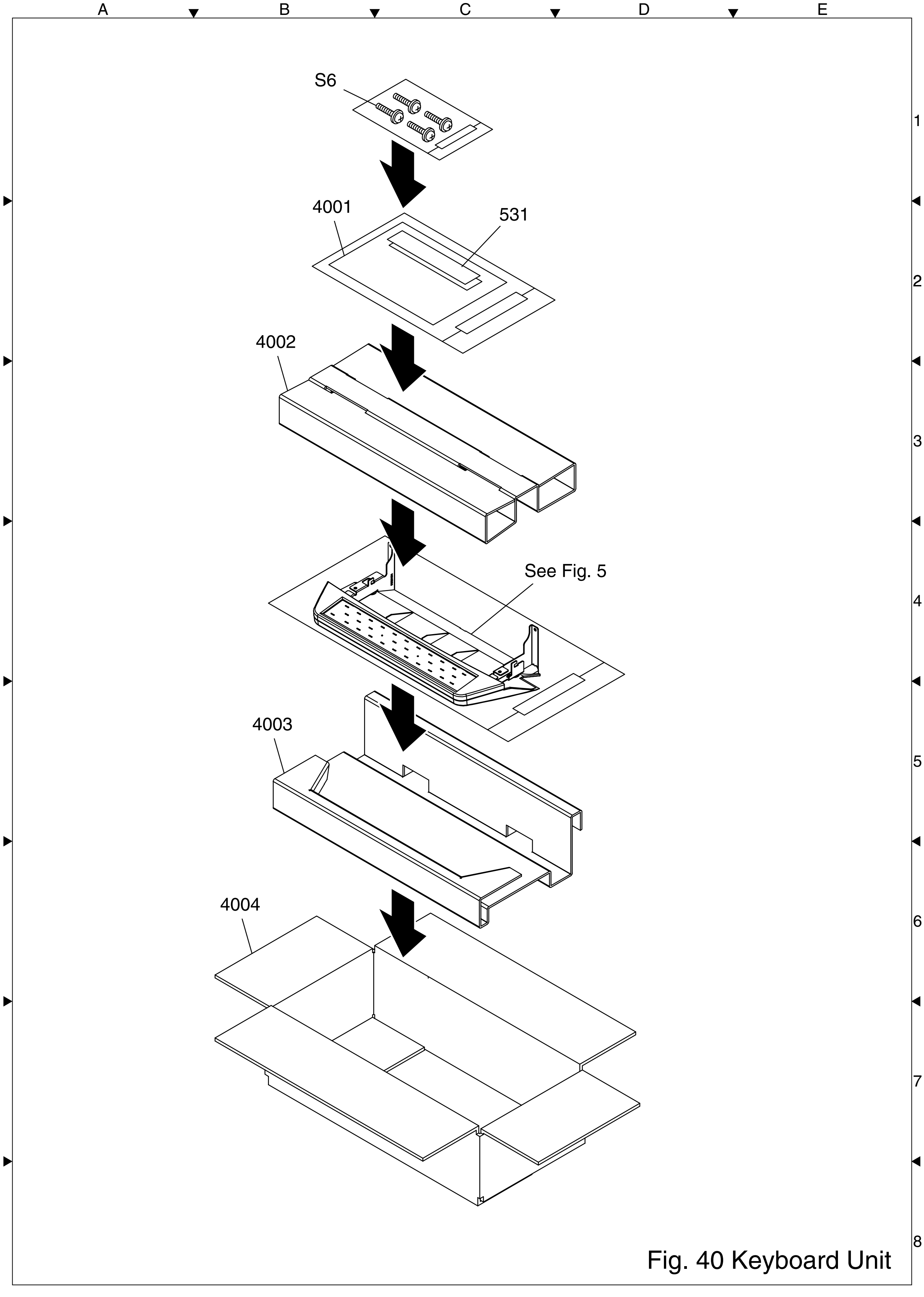
Fig. 39 Fax Communication Board

5.26. Keyboard Option

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4001	DZSM000815	Installation Instructions	C		All
	4002	DZRH000621	Cushion, Top	C		All
	4003	DZRH000622	Cushion, Bottom	C		All
	4004	DZRB001070	Box, Carton	C		All
	531	-----	Sheet, Keyboard	C	See Sect. 5.4 (Control Panel Unit)	All
	S6	DZPA000086	Screw	C		All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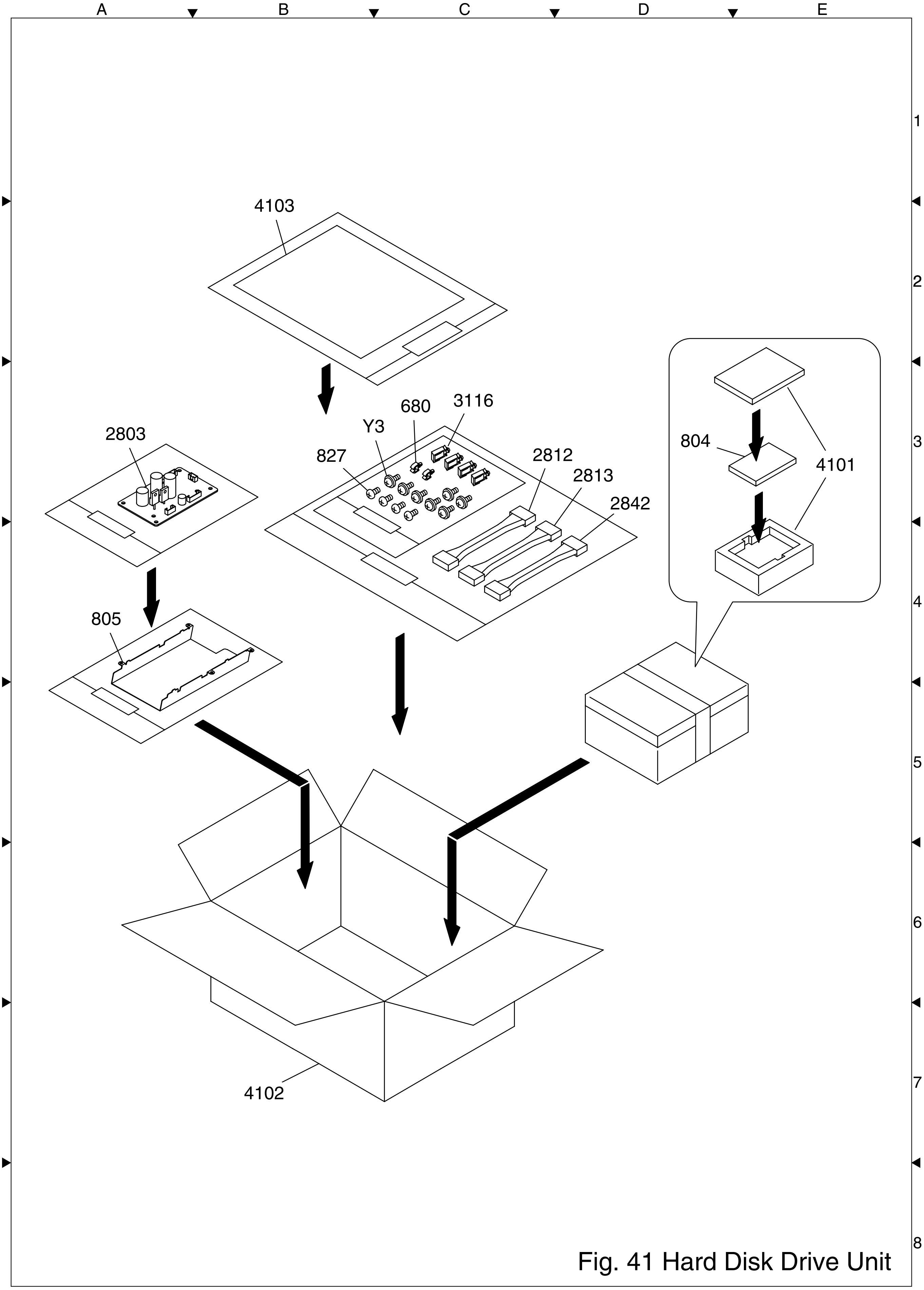
See Fig. 5
4003
4004

Fig. 40 Keyboard Unit

5.27. Hard Disk Drive Unit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4101	DZRB000750	Cushion, HD	C		All
	4102	DZRB000580	Box, Carton	C		All
	4103	DZSM000812	Installation Instructions	C		All
	680	DZJK000004	Clamp	C		All
⚠	804	M0CE00000028	HDD Unit	C		All
	805	DZJE001207	Cover, HDD	C		All
	827	DZPA000093	Screw	C		All
	2803	DZEC102176R	PC Board, DC	C	RTL/PbF	All
	2812	DZFP001632	Harness, DC	C		All
	2813	DZFP001651	Harness, HDD	C		All
	2842	DZFP001633	Harness, HDDPS	C		All
	3116	DZJK000068	Clamp	C		All
	Y3	XTW3+6LFJ	Screw	C		All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2813
4101
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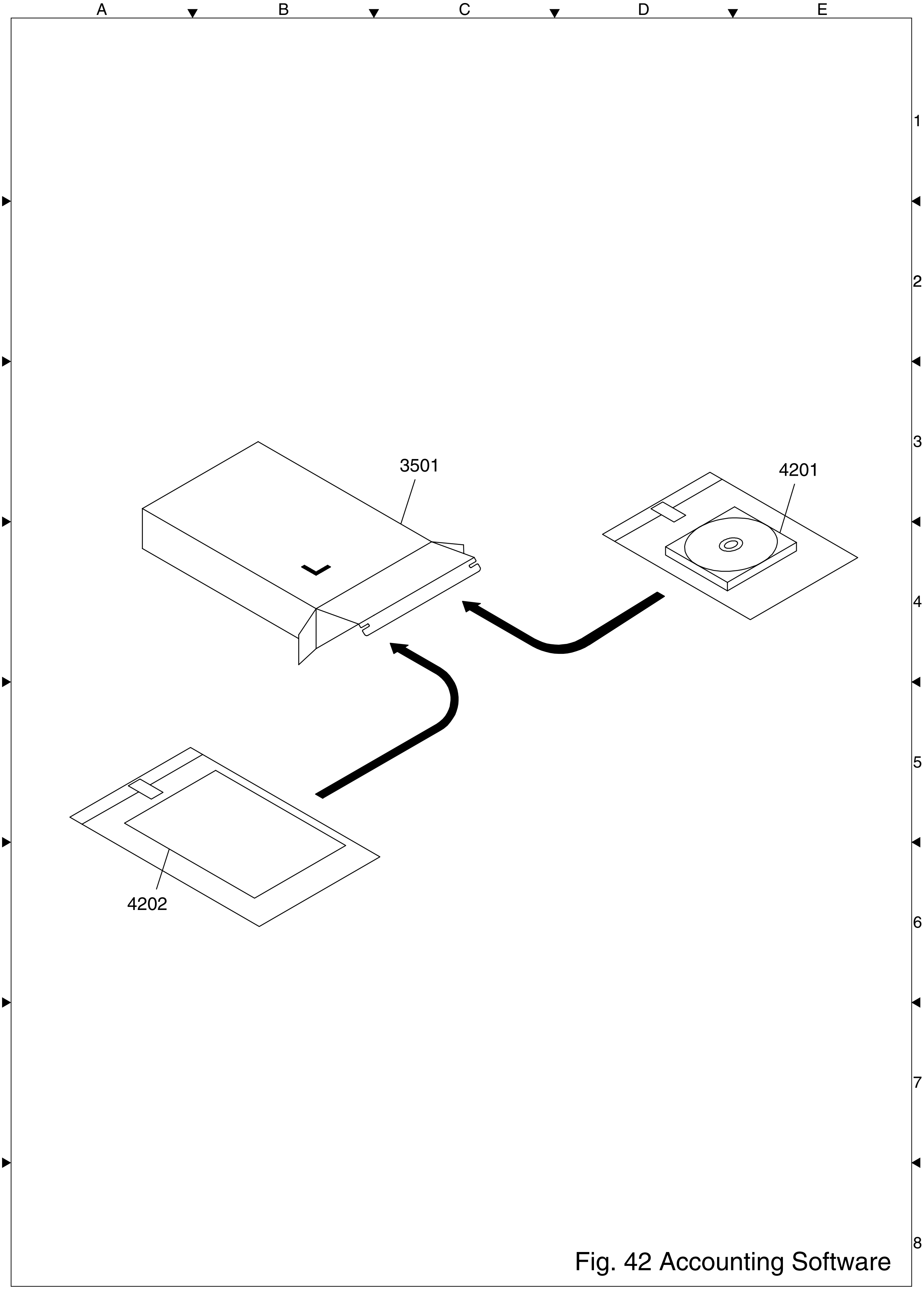
805
4102

Fig. 41 Hard Disk Drive Unit

5.28. Accounting Software

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4201	-----	Accounting Software CD		Available as Sales Item	
	4202	DZSM000741	Installation Instructions	C		All
	3501	DZRB000143	Box	C		All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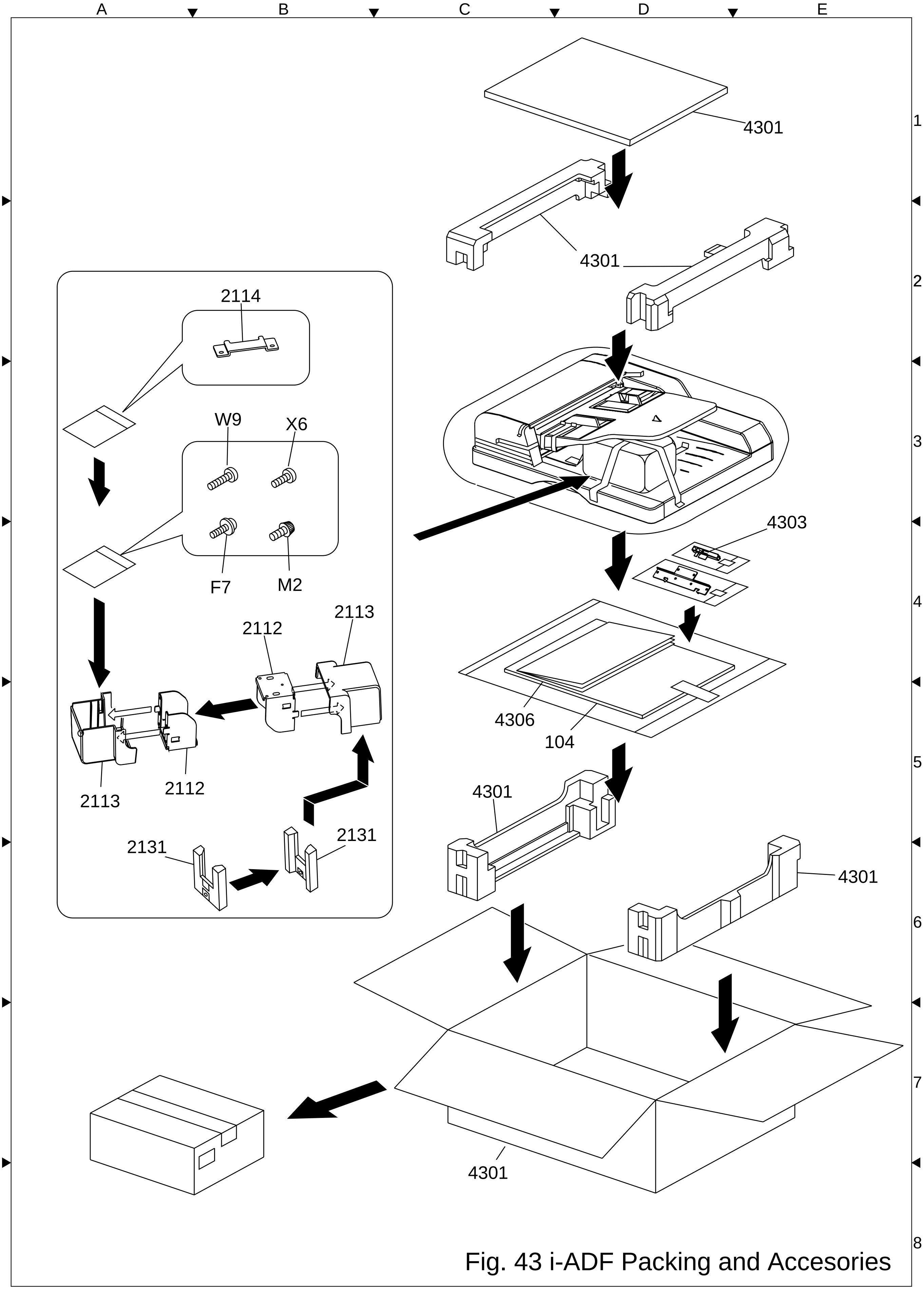
4201
4202

Fig. 42 Accounting Software

5.29. i-ADF Packing and Accessories

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4301	DZHP011187	Packing, i-ADF	C		PU,PUG
		DZHP011186				Other
	4303	DZJM001402	Actuator, ADF	C		All
	4306	DZSM000551	Installation Instructions	C		All
	104	PJHEC0124Z	Pad, Scanning	C		All
	2112	PJUIC0254Z	Bracket, ADF Mounting	C		All
	2113	DZMC000713	Cover, Hinge	C		All
	2114	DZJA000726	Stopper, Hinge	C		All
	2131	DZMA004372	Cover 2, Hinge	C		All
	X6	XTB3+8JFJ	Screw	C	Not Used	All
	F7	XSN4+W10FN	Screw	C		All
	M2	DZPA000064	Screw, Thumb	C		All
	W9	XTB3+12JFJ	Screw	C		All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2113
2112
4306
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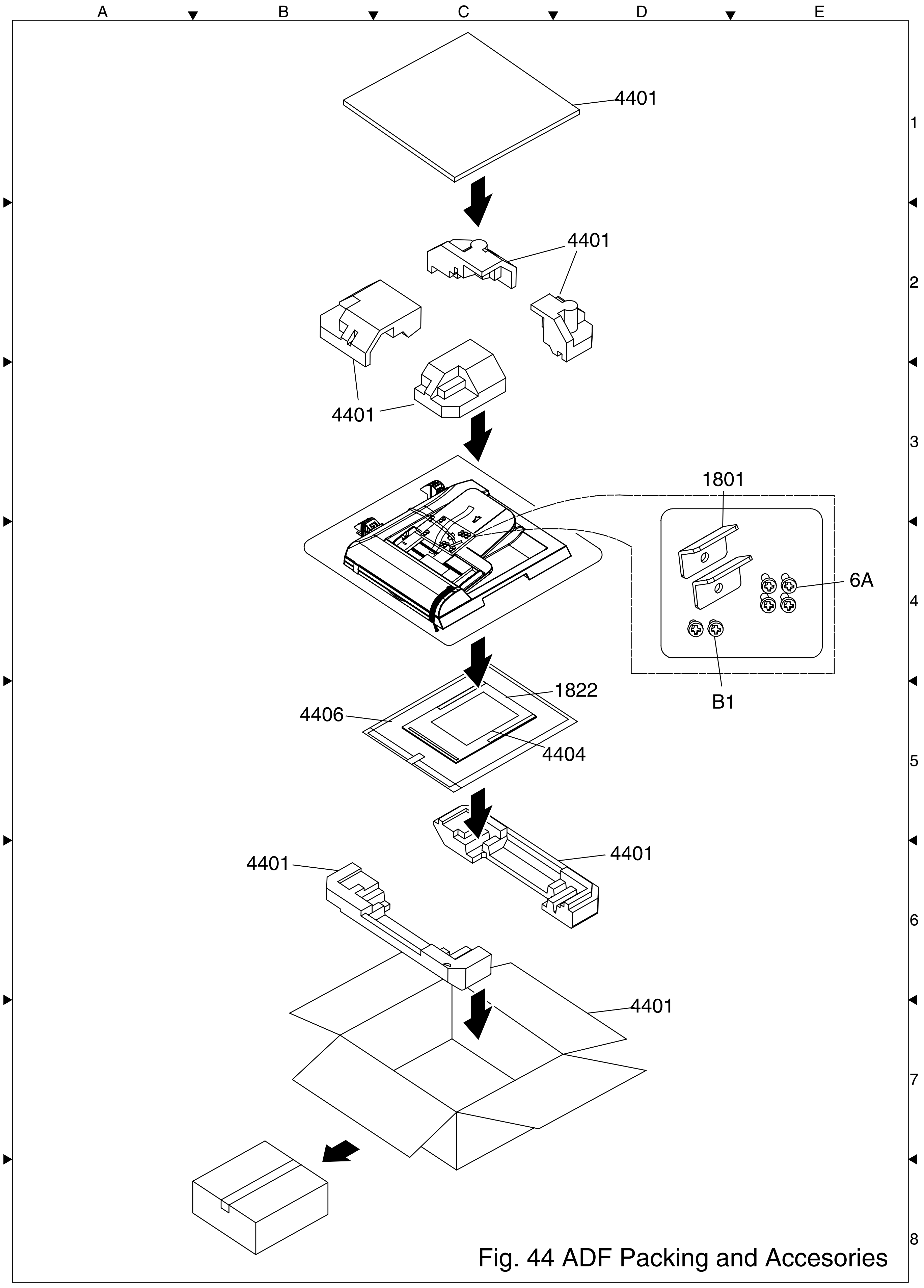
4301
2131
2131
4301
4301

Fig. 43 i-ADF Packing and Accesories

5.30. ADF Packing and Accessories

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4401	DZHP011700	Packing, ADF	C		PU, PUG, PT
		DZHP011701				Except PU, PUG, PT
	4404	DZSM000523	Installation Instructions	C		All
	4406	DZRH000479	Sheet, Cushion	C		All
	1801	DZJA000858	Plate, Angle	C		All
	1822	PJZEF21200PU	Scanning Pad	C		All
	6A	XTB3+12GFJ	Screw	C		All
	B1	DZPB000007	Screw, Silver	C		All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4401
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1801
6A
B1
1822
4406
4404
4401
4401
4401

Fig. 44 ADF Packing and Accesories

5.31. 2nd/4th Paper Tray and 3rd Paper Tray Packing and Accessories

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4501	DZRB001141 A	Box, Carton	C	For 2nd/4th Paper Tray	PU, PUG
		DZRB001145 B				
		DZRB001142 A				Other
		DZRB001146 B				
		DZRB001139 A			For 3rd Paper Tray	PU,PUG
		DZRB001143 B				
		DZRB001140 A				Other
		DZRB001144 B				
	4502	DZRH000601	Assembly, Cushion	C		All
	4504	DZSM000811	Installation Instructions	C		All
	4505	DZNK005417	Label, Paper Size	C		PU, PUG
		DZNK005420				PK
		DZNK005416				Other
	X8	XTB3+8GFJ	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

Note:

A: Carton Box depicts Made in Japan.

B: Carton Box depicts Made in Philippines.

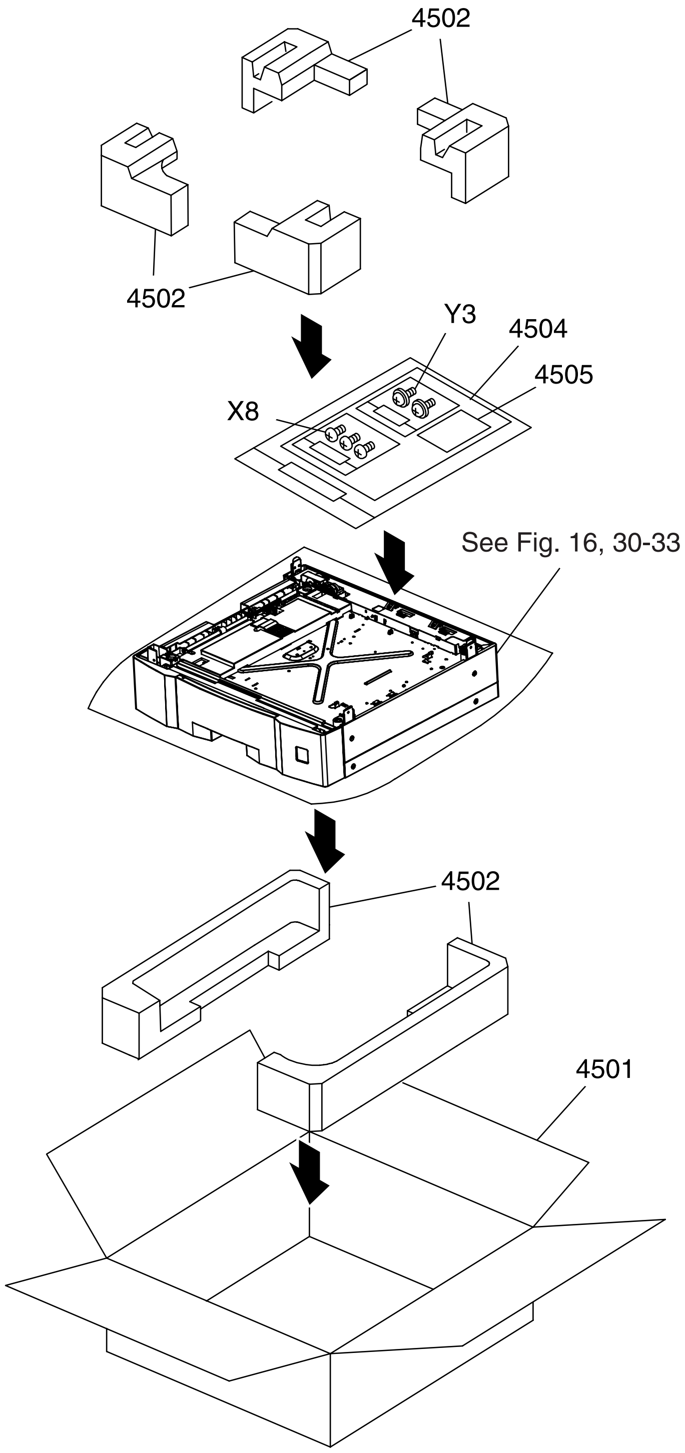

4502
4502
Y3
4504
4505
X8
See Fig. 16, 30-33
4502
4501

Fig. 45 2nd / 4th Paper Tray and 3rd Paper Tray
Packing and Accesories

5.32. Dehumidifier Heater Kit (For Main Unit)

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4601	DZRB000101	Box, Carton	C		All
	4602	DZSM000818	Installation Instructions	C		All
⚠	224	DZNK005283	Label, Heater Main	C		PU, PUG, Other
		PJGTC0053Z				PK
⚠	225	DZNK005284	Label, Switch	C		All
	404	DZJA001439	Bracket, Dehumidifier Heater	C		All
	405	DZJA001438	Bracket, Harness	C		All
⚠	424	FFPCP0034	Heater	C		All
	425	DZHD000036	Sleeve, Heater	C		All
	429	DZJK000045	Clamp	C		All
	430	DZJK000046	Clamp	C		All
	680	DZJK000004	Clamp	C		All
	681	DZJK000023	Clamp	C		All
	808	DZJA001436	Bracket, RLB SW	C		All
	809	DZJA001437	Bracket, RLB PCB	C		All
⚠	814	DZCC000006	Switch, Power	C		All
	936	FFPKD07791	Bracket, Heater	C		All
	2804	PJWPF2740AZ	PC Board, RLB	C		All
	2830	DZFP001639	Harness, PTC-AC 1	C		All
	2831	DZFP001641	Harness, PTC-AC 3	C		All
	2833	DZFP001653	Harness, RLB	C		All
	2834	DZFP001640	Harness, PTC-AC 2	C		All
	3116	DZJK000068	Clamp	C		All
	3128	DZJH000026	Spacer, PCB	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All

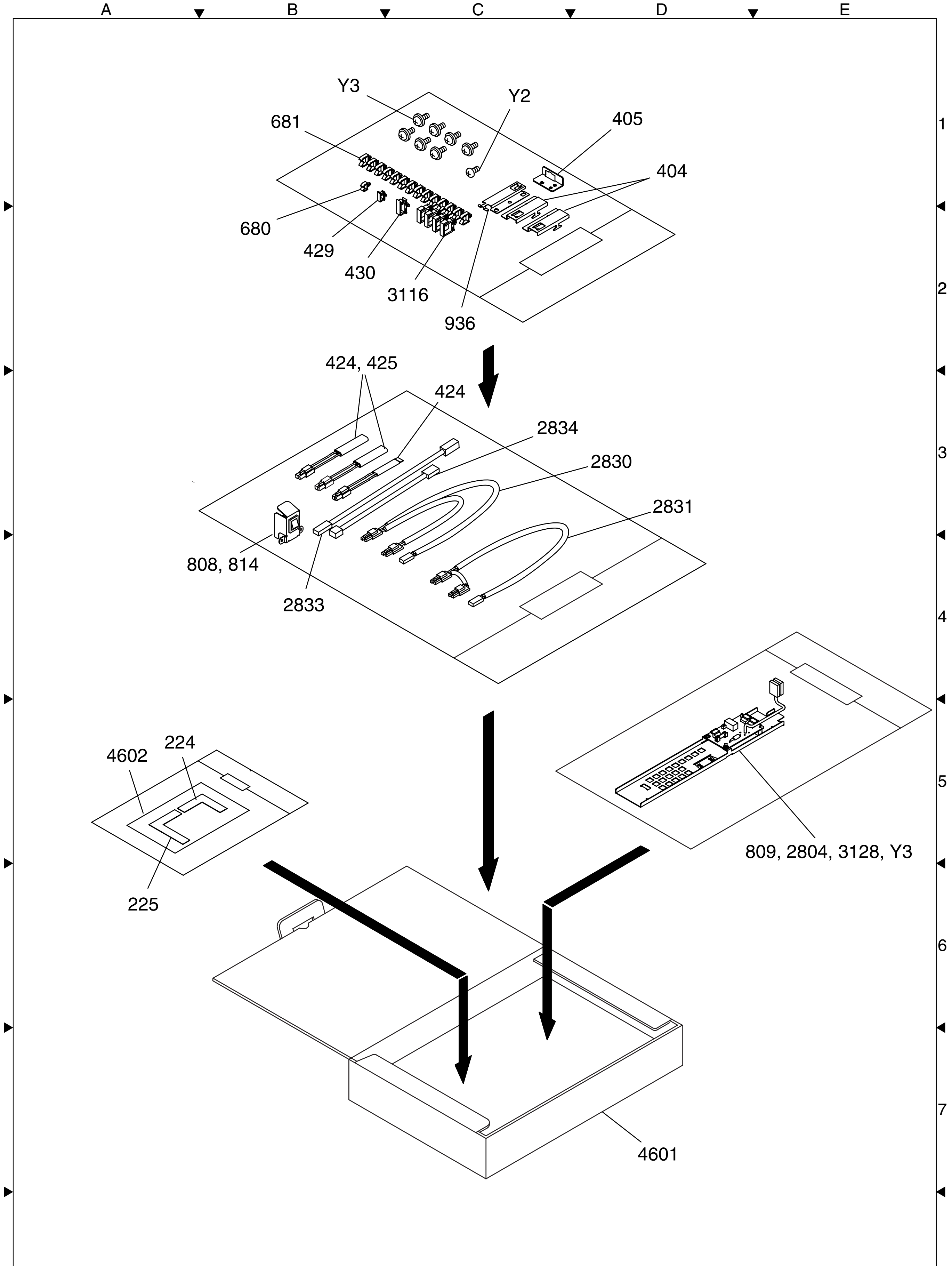

A
B
C
D
E
1
2
3
4
5
6
7
8
Y3
Y2
681
405
404
680
429
430
3116
936
424, 425
424
2834
2830
2831
808, 814
2833
4602
224
225
809, 2804, 3128, Y3
4601

Fig. 46 Dehumidifier Heater Kit (For Main Unit)

5.33. Dehumidifier Heater Kit (For Optional Paper Tray(s))

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4701	DZSM000820	Installation Instructions	C		All
⚠	424	FFPCP0034	Heater	C		All
	681	DZJK000023	Clamp	C		All
	2835	DZFP001642	Harness, PTC-AC 4	C		All
	3113	DZJE001206	Cover, Heater	C		All
	3114	DZJE001205	Holder, Heater	C		All
	3115	DZJK000067	Clamp	C		All
	3117	DZJK000017	Edge Saddle	C		All
	3501	DZRB000143	Box	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All

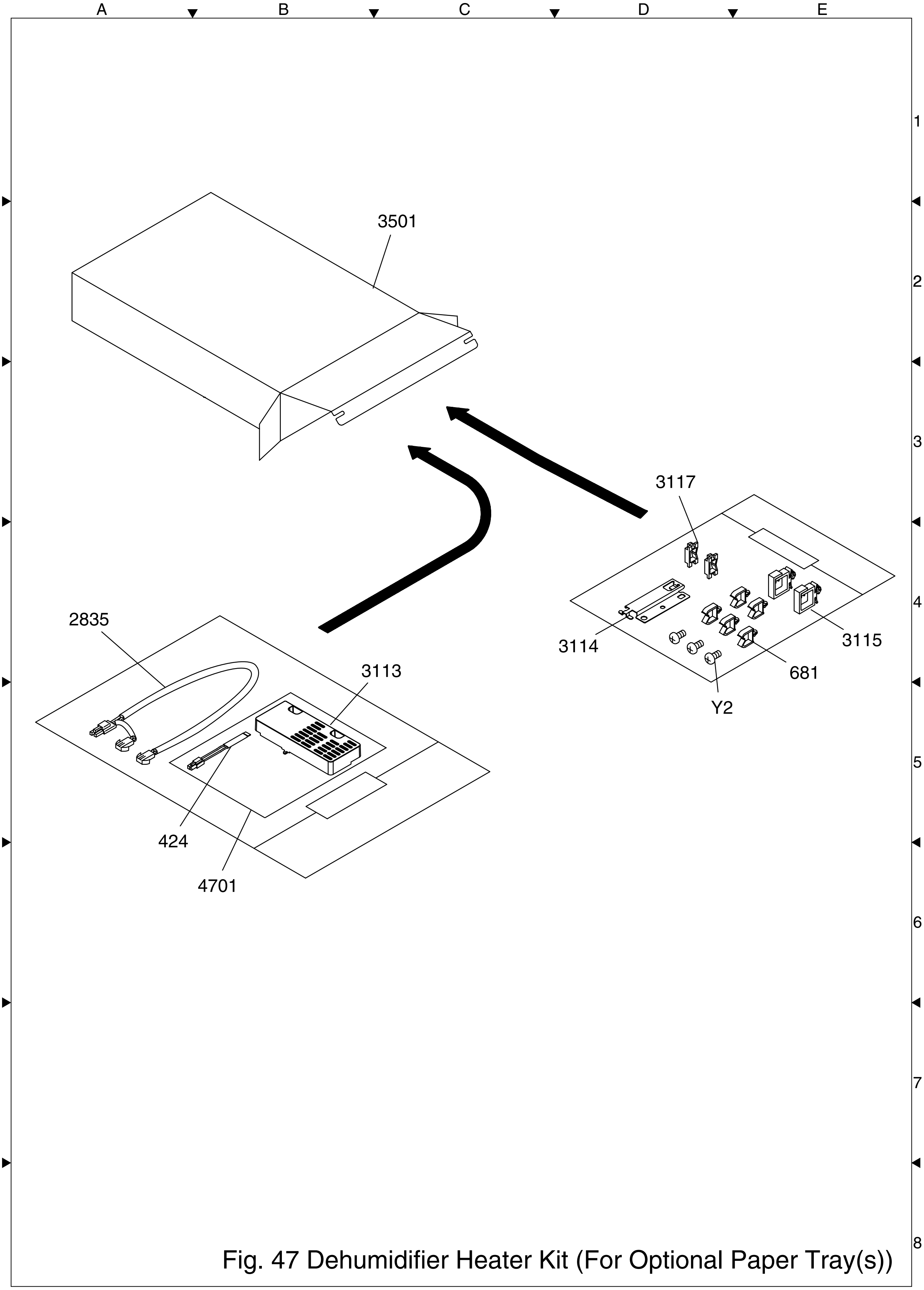

A
B
C
D
E
1
2
3
4
5
6
7
8
3501
3117
3114
3115
681
Y2
2835
3113
424
4701

Fig. 47 Dehumidifier Heater Kit (For Optional Paper Tray(s))

5.34. Key Counter Harness Kit

Safety Mark	Ref. No.	Part Number	Part Name	New Parts	Remarks	Destination
	4801	DZSM000825	Installation Instructions	C		All
	4802	DZTT000711	Box, Carton	C		All
	237	PJUIC0218Z	Base, Key Counter	C		All
	238	PJUIC0219Z	Cover, Key Counter	C		All
	239	PJUIC0221Z	Cover, Key Counter Front	C		All
	940	DZJK000070	Clamp	C		All
	951	DZJB000463	Guide, Counter	C		All
	2861	DZFP001902	Harness, KEY	C		All
	Y2	XTB3+6FFJ-RP	Screw	C		All
	Y3	XTW3+6LFJ	Screw	C		All
	Y11	XSB4+10FJ	Screw	C		All

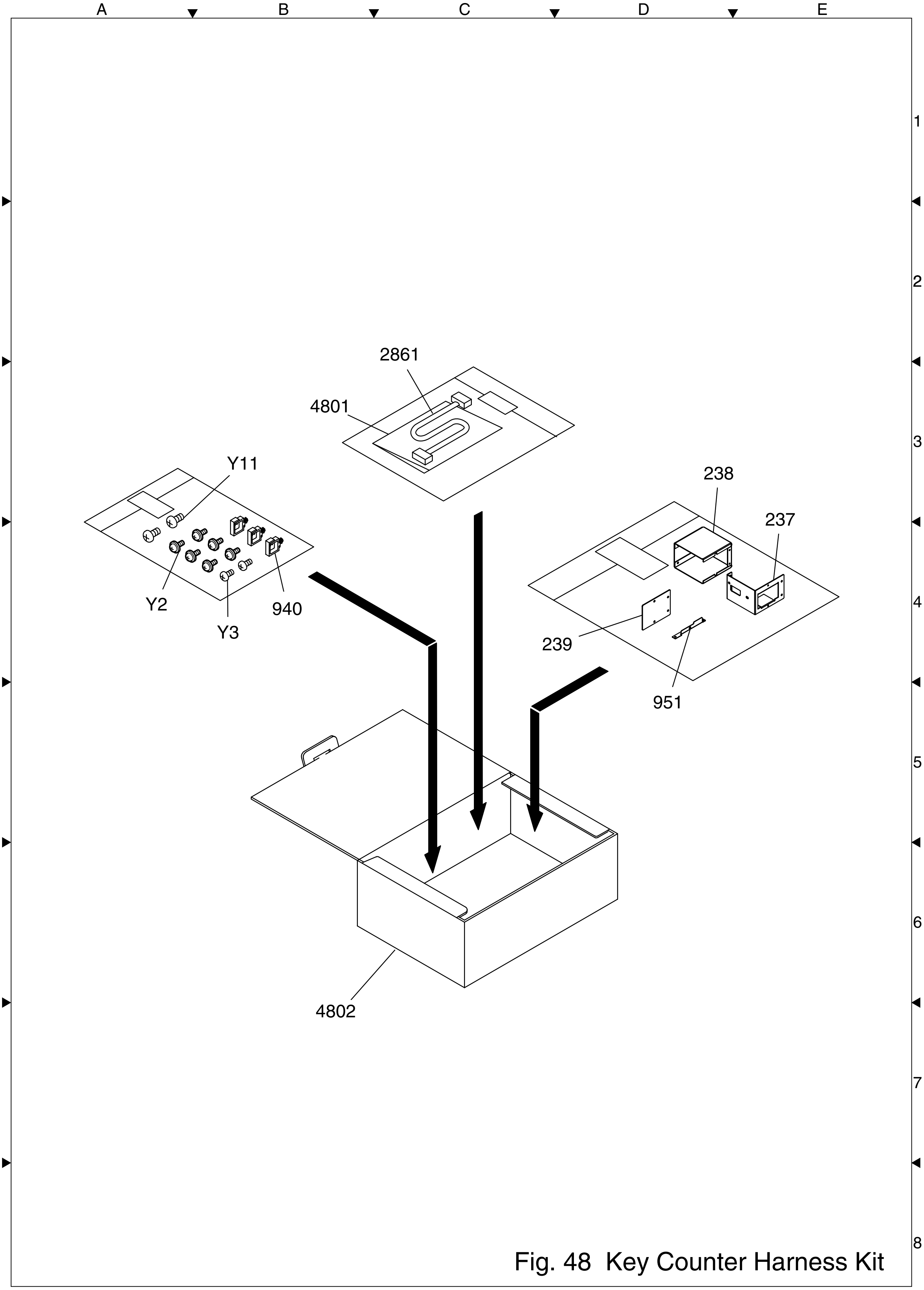
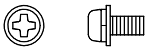
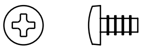
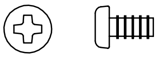
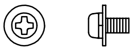
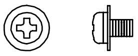
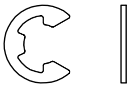
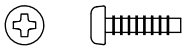
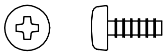
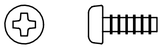
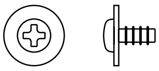
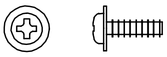
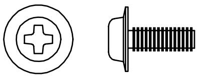
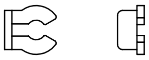
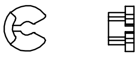
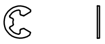
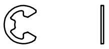
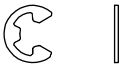
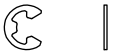
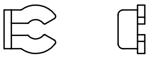
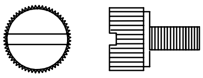
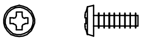
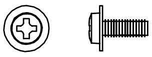
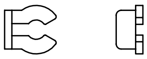
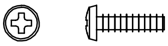
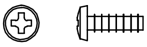
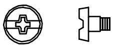
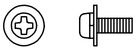
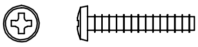
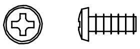
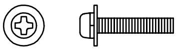
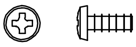
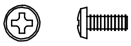
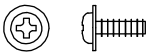
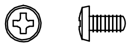
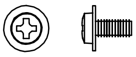
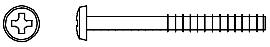
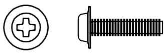
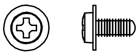
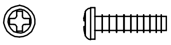
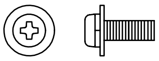
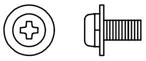
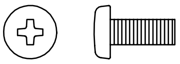

A
B
C
D
E
1
2
3
4
5
6
7
8
2861
4801
Y11
238
237
Y2
940
Y3
239
951
4802

Fig. 48 Key Counter Harness Kit

5.35. Hardware Identification Template

Ref. No.	Part No.	Figure	Remark
18	XYN3+F6FJ		Screw
62	XTB3+6JFJ		Screw
1N	XTB4+8JFJ		Screw
3F	XYN3+F5FJ		Screw
5M	XYN3+F4FJ		Screw
5Z	XUC6VM		E-Ring
6A	XTB3+12GFJ		Screw
B1	DZPB000007		Silver Screw
B4	XTB3+8JFI		Blue Screw
C2	DZPB000020		Screw
E8	XTW3+10SFJ		Screw
F7	XSN4+W10FN		Silver Screw
G6	FFPFJ0039B		Snap Ring
H7	FFPFJ0041B		Snap Ring
J6	XUC3VM		E-Ring
J7	XUC4VM		E-Ring

Ref. No.	Part No.	Figure	Remark
J8	XUC7VM		E-Ring
K5	XUC5VM		E-Ring
K9	FFPFJ0043B		Snap Ring
M2	DZPA000064		Thumb Screw
Q8	XTB3+8GFN		Screw
S6	DZPA000086		Screw
S9	FFPFJ0033B		Snap Ring
W9	XTB3+12JFJ		Screw
X1	XTB3+10GFJ		Screw
X2	DZPA000089		Screw
X3	XYN3+F8FJ		Screw
X4	XTB3+20GFJ		Screw
X6	XTB3+8JFJ		Screw
X7	XYN3+F14FJ		Screw
X8	XTB3+8GFJ		Screw
X9	XTB3+8FFJ		Screw
Y1	XTW3+8PFJ		Screw

Ref. No.	Part No.	Figure	Remark
Y2	XTB3+6FFJ-RP		Screw
Y3	XTW3+6LFJ		Screw
Y4	XTB3+32GFJ		Screw
Y5	XSN3+W10FJ		Screw
Y6	XTW3+6LFJR		Screw
Y7	XNC3FJ		Nut
Y8	XTN3+10GFJ		Screw
Y9	XYN4+F8FJ		Screw
Y10	XYN4+F6FJ		Screw
Y11	XSB4+10FN		Screw

memo

6 Alphanumerical Parts List

Alphanumerical Parts List				
Part Number	**Part Name**	**Ref. No.**	**Remarks**	**Destination**
----------	Sheet, Keyboard	531	Control Panel Unit	All
----------	Accounting Software CD	4201	Available as Sales Item	
----------	Hardware Key	3505		
----------	Label, Adobe Postscript 3	3604		
CR2032	Battery	504*		All
DNQ18AS14W26	Motor, Drive	1511		All
DQ-H60J-PU	Drum, OPC (Available as Sales Item)	1403	PM	All
DQ-TU10J-PB	Assembly, Toner Bottle (Available as Sales Item)	1216	PM	Other
DQ-TUJ10K-PK	Assembly, Toner Bottle (Available as Sales Item)	1216	PM	PK
DQ-TUJ10K-PU	Assembly, Toner Bottle (Available as Sales Item)	1216	PM	PU, PUG
DZAL000211	Sensor, Photo	131		All
DZBL000061	Assembly, Thermistor	1125	PM	All
DZCC000006	Switch, Power	814		All
DZCC000011	Switch, Power	818		All
DZCF000022	Switch, Cover Open	1918		All
DZDG000177	Coil 2	820		Except PU, PT, PUG
DZDX000003	Thermostat	1120	For DP-8016P	All
DZEA000088	PC Board, Inverter	416		All
DZEC101648R	PC Board, ADF	2847	For DP-8020E (RTL/PbF)	All
DZEC102176R	PC Board, DC	2803	RTL/PbF	All
DZEC102303R	PC Board, ADF	2846	RTL/PbF	All
DZEC102304R	PC Board, SNS	2832		All
DZEC102749R	PC Board, CST3	2909	RTL/PbF	All
DZEC102751R	PC Board, WTS	2806		All
DZEC102830R	PC Board, PCL	2807		All
DZEC102911R	PC Board, PNL1	2904	RTL/PbF	All
DZEC102912R	PC Board, PNL2	2905		All
DZEC102913R	PC Board, PNL3	2906		All
DZEC102917R	PC Board, SSN	2910		Except PK, PT
DZEC103049R	PC Board, PNL4	2907	For DP-8020E/8020P*	All
DZEC103116R	PC Board, FXB	2903	RTL/PbF	AUR
DZEC103117R	PC Board, FXB	2903	RTL/PbF	Except AUR
DZEC103157R	PC Board, SSN	2910		PK, PT
DZEC103665	PC Board, CST2	2908	RTL/PbF	All
DZEC103692	PC Board, FRM8	2805	RTL/PbF	Europe only
DZEC103793	PC Board, MJR	2902	RTL/PbF	AUR
DZEC103795	PC Board, MJR	2902	RTL/PbF	AAR, ABR, AGR, AHR, AJR, ALR, AMR, APR, ARR, AVR, EER, ENR, YGR, YPR, YXR
DZEC103797	PC Board, MJR	2902	RTL/PbF	Except AAR, ABR, AGR, AHR, AJR, ALR, AMR, APR, ARR, AUR, AVR, EER, ENR, YGR, YPR, YXR
DZEC104116	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PU, PUG
DZEC104117	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PU, PUG
DZEC104118	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PU, PUG
DZEC104119	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PB, PY
DZEC104120	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PB, PY

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZEC104121	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PB, PY
DZEC104122	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PM
DZEC104123	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PM
DZEC104124	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PM
DZEC104125	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PF
DZEC104126	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PF
DZEC104127	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PF
DZEC104128	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PS
DZEC104129	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PS
DZEC104130	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PS
DZEC104131	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PP
DZEC104132	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PP
DZEC104133	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PP
DZEC104134	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PA
DZEC104135	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PA
DZEC104136	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PA
DZEC104137	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PK
DZEC104138	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PK
DZEC104139	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PK
DZEC104140	PC Board, SC	2801	For DP-8016P (RTL/PbF)	PT
DZEC104141	PC Board, SC	2801	For DP-8020P*(RTL/PbF)	PT
DZEC104142	PC Board, SC	2801	For DP-8020E (RTL/PbF)	PT
DZEC104147	PC Board, SPC	2802	RTL/PbF	All
DZFA000098	Inlet	945		All
DZFB000001	Plug, PTT	3907		ARR
DZFB000009	Plug, PTT	3907		ALR
DZFB000010	Plug, PTT	3907		ALR
DZFB000022	Plug, PTT	3907		AAR
DZFB000035	Plug, PTT	3907		ARR
DZFC001575	Connector, TR2	2435		All
DZFC001576	Connector 3	2418		All
DZFM000111	Cord, AC Power	3406		PK
DZFM000115	Cord, AC Power	3406		PA
DZFN000104	Cord, Line	3903		ARR
DZFN000136	Cord, Line	3903		AER, AJR, ATR, AUR, EER, YAR, YCR, YGR, YMR, YPR, YRR, YSR, YTR, YVR, YWR, YXR, YYR
DZFP000747	Resistor, 200M ohm	717		All
DZFP001377	Harness, i-ADF	2827	For DP-8020E	Other
DZFP001533	Harness, PNL2 1	2923		All
DZFP001534	Harness, PNL2 2	2924		All
DZFP001587	Harness, PS	2815		All
DZFP001588	Harness, ILS	2823		All
DZFP001589	Harness, Thermistor 2	2818		All
DZFP001590	Harness, MPS	2841		All
DZFP001592	Harness, SSN	2821		All
DZFP001593	Harness, SCN	2828		All
DZFP001594	Harness, INV	2829		All
DZFP001595	Harness, WTS	2819		All
DZFP001596	Harness, LSU 1	2826		PU, PT, PK, PUG
DZFP001597	Harness, Paper Tray Sensor	2820		All
DZFP001598	Harness, SNS	2817		All
DZFP001599	Harness, ACIN	2913		All
DZFP001600	Harness, ACSW	2914		All
DZFP001601	Harness, HT	2925		All
DZFP001602	Harness, HV 1	2912		All
DZFP001603	Harness, BSMT	2822		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZFP001604	Harness, Toner Sensor	2836		All
DZFP001605	Harness, PCL PCB	2837		All
DZFP001606	Harness, Thermistor 1	2838		All
DZFP001607	Harness, DUPSEN	2844	For DP-8020E	All
DZFP001608	Harness, HEPESEN	2839		All
DZFP001611	Harness, Paper Tray 2	2825		All
DZFP001612	Harness, Paper Tray 3	2921		All
DZFP001613	Harness, CL2	2920		All
DZFP001614	Harness, Paper Tray Sensor 2	2919		All
DZFP001615	Harness, CL3	2922		All
DZFP001616	Harness, Frame Ground	2840		All
DZFP001617	Harness, HV 2	2911		All
DZFP001620	Harness, SC-SPC	2816		All
DZFP001622	Harness, CCD	2811		All
DZFP001623	Harness, LSU 2	2814		PU, PT, PK, PUG
DZFP001624	Harness, CSS	2843		All
DZFP001627	Harness, PNL1-PNL3 A	2916		All
DZFP001628	Harness, PNL1-PNL3 B	2917		All
DZFP001629	Harness, PNL1-PNL4	2918		All
DZFP001630	Harness, MJR-FXB	2915		All
DZFP001632	Harness, DC	2812		All
DZFP001633	Harness, HDDPS	2842		All
DZFP001634	Harness, PNL1	2810	For DP-8020E	All
DZFP001635	Harness, PNL1	2810	For DP-8020P*	All
DZFP001636	Harness, PNL1	2810	For DP-8016P	All
DZFP001639	Harness, PTC-AC 1	2830		All
DZFP001640	Harness, PTC-AC 2	2834		All
DZFP001641	Harness, PTC-AC 3	2831		All
DZFP001642	Harness, PTC-AC 4	2835		All
DZFP001650	Inlet Harness	946		All
DZFP001651	Harness, HDD	2813		All
DZFP001653	Harness, RLB	2833		All
DZFP001672	Harness, ADF Clutch	2854	For DP-8020E	All
DZFP001674	Harness, B1 Sensor	2857	For DP-8020E	All
DZFP001705	Harness, ADF Motor and Clutch	2853	For DP-8020E	All
DZFP001710	Harness, CLT	2855	For DP-8020E	All
DZFP001711	Harness, SNS	2856	For DP-8020E	All
DZFP001712	Harness, Read Point Sensor	2858	For DP-8020E	All
DZFP001713	Harness, Exit Sensor	2859	For DP-8020E	All
DZFP001714	Harness, ADF-FG	2860		All
DZFP001902	Harness, KEY	2861		All
DZFP001964	Harness, ADF Motor	2848		All
DZFP001965	Harness, PNT/REV	2849		All
DZFP001966	Harness, Open Switch	2850		All
DZFP001967	Harness, Stamp	2852	For DP-8020E/8020P*	All
DZFP001968	Harness, ADF SNS	2851		All
DZFP001969	Harness, ADF	2827		All
DZFP001971	Harness, i-ADF	2827	For DP-8020E	PK, PT, PU, PUG
DZFP002104	Harness, LSU 1B	2826		Except PU, PT, PK, PUG
DZFP002105	Harness, LSU 2B	2814		Except PU, PT, PK, PUG
DZGB000045	Solenoid	1512	For DP-8020E	All
DZGD000001	Magnet	208		All
DZGD000005	Roller, Magnetic	1306		All
DZGG000072	Motor	3134		All
DZGG000074	Motor, Scanning	316		All
DZGG000075	Fan, Rear	815	For DP-8016P	All
DZGG000076	Fan, PS	816		All
DZGK000471	Shaft, Reverse Roller	654		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZGM000011	Lamp, Scanning	410		All
DZGN000052	Lamp, Fuser	1116	PM	PU, PT, PUG
DZGN000053	Lamp, Fuser	1116	PM	Other
DZGT000007	Brush, Antistatic	1719		All
DZGT000032	Brush, Discharge	703		All
DZHA000225	Cover 2, Harness	1326		All
DZHA000226	Cover, Charge	1432		All
DZHA000227	Cover, Rear Charge	1438		All
DZHC000057	Actuator, Original Length	1709		All
DZHC000102	Actuator 2	2622		All
DZHC000103	Actuator 3	2627		All
DZHC000104	Actuator, Sensor B2	2522		All
DZHC000105	Actuator, Sensor C	2520		All
DZHC000168	Actuator	1106		All
DZHC000169	Sheet, Blind	1434		All
DZHC000170	Cover 1, Harness	403		All
DZHC000172	Plate	1453		All
DZHC000173	Sheet	1452		All
DZHD000036	Sleeve, Heater	425		All
DZHD000038	Cover, PS	801		All
DZHD000039	Sheet A	1012		All
DZHD000040	Sheet, Radiation	1401		All
DZHE000055	Duct, Upper	942		All
DZHE000056	Duct, Lower	943		All
DZHE000057	Cover, Fan	828		All
DZHE000058	Sponge, Developer	1303		All
DZHE000059	Duct, Exit	823		All
DZHE000060	Filter, Ozone	825	PM	All
DZHE000067	Sponge, Cover L	1352		All
DZHE000068	Sponge, Cover Angle	1353		All
DZHE000069	Sponge, Cover S	1354		All
DZHE000070	Sponge, Cover M	1359		All
DZHE000071	Seal, Developer Side	1355		All
DZHE000072	Sponge, Developer Side	1356		All
DZHE000073	Sponge, Doctor Blade(Side A)	1357		All
DZHE000074	Sponge, Doctor Blade(Side B)	1358		All
DZHP000237	Assembly, Stamp	1829	For DP-8020E/8020P*	AUR
DZHP000240	Assembly, Stamp	1829	For DP-8020E/8020P*	Other
DZHP001664	Base, Stamp	2125	For DP-8020E/8020P*	All
DZHP003955	Assembly, Torque Limiter	2525		All
DZHP005513	Unit, Stamp	1830	For DP-8020E/8020P*	All
DZHP009894	Container, Toner Waste	1201	PM	All
DZHP009898	Assembly, Drive Shaft	304		All
DZHP009912	Assembly, Fuser Drive Plate	1518		All
DZHP009928	Assembly, OP Paper Tray Plate	3112		All
DZHP009929	Assembly, 3rd OP Drive Plate	3304		All
DZHP009933	Developer Unit	1347		All
DZHP009941	Bracket, Front Cover	744		All
DZHP009942	Bracket, Rear Cover	745		All
DZHP009943	Plate, Duplex Drive	746	For DP-8020E	All
DZHP010070	Assembly, Speaker	514		All
DZHP010280	CD	3909		Except YVR, AER
DZHP010630	Assembly, Document Plate	109		Other
DZHP010631	Assembly, Document Plate	109		PK, PT
DZHP010632	Assembly, Document Plate	109		PU, PUG
DZHP010737	Torque Limiter 2	691	PM	All
DZHP010738	Torque Limiter 1	690	PM	All
DZHP010765R	Assembly, ADF Tray	2211		PU,PUG
DZHP010766R	Assembly, ADF Tray	2211		Except PU, PUG
DZHP011186	Packing, i-ADF	4301		Other

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZHP011187	Packing, i-ADF	4301		PU, PUG
DZHP011700	Packing, ADF	4401		PU, PUG, PT
DZHP011701	Packing, ADF	4401		Except PU, PUG,
DZHP012149	Roller Feed Bypass Assy	671		All
DZHT000004	Stamp Head	1827	For DP-8020E/8020P*	Other
DZHT000027	Stamp Head	1827	For DP-8020E/8020P*	AUR
DZJA000187	Bracket, Magnet	207		All
DZJA000675	Bracket, Actuator	2617		All
DZJA000677	Plate 1, Adjustment	2626		All
DZJA000678	Plate, Adjustment 2	2709		All
DZJA000679	Bracket, Solenoid	2402		All
DZJA000680	Bracket, Front ADF Cover	2621		All
DZJA000681	Bracket, Rear ADF Cover	2620		All
DZJA000684	Holder, Sensor B2	2521		All
DZJA000685	Bracket, Reversing (Guide 1)	2413		All
DZJA000688	Guide, Skew	2702		All
DZJA000689	Guide, White Reference Seal	2106		All
DZJA000693	Plate, Reinforcement A	2306		All
DZJA000694	Plate, Reinforcement B	2305		All
DZJA000695	Bracket, Gear	2602		All
DZJA000696	Bracket, Sensor	2120		All
DZJA000697	Bracket, Moving Gear	2409		All
DZJA000699	Bracket, Actuator	2206		All
DZJA000726	Stopper, Hinge	2114		All
DZJA000848	Bracket, Right	1914		All
DZJA000849	Bracket, Motor	1906		All
DZJA000850	Guide, White	1815		All
DZJA000851	Bracket, Pulley	1913		All
DZJA000852	Bracket, Substrate	1703		All
DZJA000853	Bracket, Left Hinge	1802		All
DZJA000854	Bracket, Adjust	1901		All
DZJA000855	Bracket, Hinge Right	1816		All
DZJA000856	Plate, Hinge Right	1821		All
DZJA000858	Plate, Angle	1801		All
DZJA001172	Bracket, Center	2033		All
DZJA001190	Cover, ADF PC Board	1916		All
DZJA001365	Bracket, Right Keyboard	534	For DP-8020E/8020P*	All
DZJA001366	Bracket, Left Keyboard	535	For DP-8020E/8020P*	All
DZJA001367	Bracket, Connector	916		All
DZJA001368	Bracket, LSU 2	905		All
DZJA001369	Frame, SC	904		All
DZJA001370	Post, Front SC	903		All
DZJA001371	Post, Rear SC	902		All
DZJA001372	Bracket, LSU 1	908		All
DZJA001373	Bracket, Toner	914		All
DZJA001374	Bracket, Bottle	909		All
DZJA001375	Shield, Front Side	1311		All
DZJA001376	Shield, Rear Side	1310		All
DZJA001377	Bracket, PS Cover	813		All
DZJA001378	Base, PS	810		All
DZJA001379	Bracket, PS	802		All
DZJA001380	Plate, Front Bias	1316		All
DZJA001384	Cover, CCD	406		All
DZJA001385	Bracket, Left Hinge	112		All
DZJA001386	Bracket, Right Hinge	113		All
DZJA001387	Rail, Front	310		All
DZJA001388	Rail, Rear	309		All
DZJA001389	Base, Mirror 2	417		All
DZJA001390	Holder, Rear Mirror	423		All
DZJA001391	Holder, Front Mirror	419		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJA001392	Bracket, Motor	313		All
DZJA001393	Plate, Front Spring	1124		All
DZJA001394	Plate, Rear Spring	1111		All
DZJA001395	Frame A, Main Drive	1514		All
DZJA001396	Plate, Terminal 1	1117		All
DZJA001397	Plate, Terminal 2	1119		All
DZJA001398	Plate, Terminal 3	1121		All
DZJA001399	Frame B, Main Drive	1515		All
DZJA001400	Bracket, Drive Cover	3009		All
DZJA001401	Cover B, Main Drive	1516		All
DZJA001402	Bracket, Pickup	627		All
DZJA001405	Bracket, Registration Sensor	606		All
DZJA001406	Bracket, Front Guide	663		All
DZJA001407	Bracket, Rear Guide	661		All
DZJA001409	Plate, Knob	1014		All
DZJA001412	Case B, Lift Up	3124		All
DZJA001413	Frame A, Bottle Drive	1501		All
DZJA001414	Frame B, Bottle Drive	1502		All
DZJA001420	Bracket, Reverse	632		All
DZJA001422	Hopper Unit	1217		Other
DZJA001425	Stopper, Release	725		All
DZJA001427	Assembly, Latch Bracket	688		All
DZJA001436	Bracket, RLB PCB SW	808		All
DZJA001437	Bracket, RLB PCB	809		All
DZJA001438	Bracket, Harness	405		All
DZJA001439	Bracket, Dehumidifier Heater	404		All
DZJA001443	Bracket, MJR PCB	811		All
DZJA001459	Bracket, Rear ADF	2501		All
DZJA001460	Bracket, Front ADF	2401		All
DZJA001461	Plate, Release Lever	2504		All
DZJA001462	Bracket, Reversing (Guide 2)	2416		All
DZJA001466	Bracket, Inverting Guide Front	2426		All
DZJA001467	Bracket, Inverting Guide Rear	2427		All
DZJA001468	Bracket, Motor	2610		All
DZJA001469	Bracket, Pulley	2613		All
DZJA001470	Hinge, Arm	2102		All
DZJA001471	Base, Left Hinge (A)	2322		All
DZJA001472	Plate, Reinforcement	2103		All
DZJA001473	Base, Right Hinge (B)	2105		All
DZJA001568	Case A, Lift Up	3133		All
DZJB000186	Plate, Magnet	213		All
DZJB000420	Frame, Developer	1312		All
DZJB000421	Frame, Center	934		All
DZJB000422	Holder, Bottle	1203		All
DZJB000424	Frame, Pipe	1339		All
DZJB000425	Bracket, Interlock SW	228		All
DZJB000426	Base, Paper Tray L	944		All
DZJB000427	Base, Right Paper Tray	3011		All
DZJB000428	Bracket, Paper Tray Base	3012		All
DZJB000429	Frame, Upper Fuser	1110		All
DZJB000430	Frame, Lower Scanner	401		All
DZJB000431	Frame, Upper Scanner	301		All
DZJB000432	Frame, CCD	402		All
DZJB000434	Base, Separator	1108		All
DZJB000435	Base, Left Paper Tray	3014		All
DZJB000436	Bracket, Rear Upper	3005		All
DZJB000437	Bracket, Rear Center	3006		All
DZJB000438	Bracket, Feed	665		All
DZJB000440	Bracket, SPC PCB	926		All
DZJB000441	Frame, Left Scanner	907		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJB000442	Frame, Right Scanner	901		All
DZJB000443	Bracket, Inlet	924		All
DZJB000444	Bracket, Rear	928		All
DZJB000445	Cover, CST	923		All
DZJB000446	Ring, Gap	3301		All
DZJB000447	Angle, Door Cover	205		All
DZJB000449	Holder, Filter	824		All
DZJB000459	Base, CHC	941		Except PU, PT, PUG, PK
DZJB000463	Guide, Counter	951		All
DZJC000378	Plate, SA	912		All
DZJC000379	Guide, Bottle Shutter	1212		All
DZJC000380	Bracket, PS SW	807		All
DZJC000381	Plate, Wire Lock	412		All
DZJC000382	Plate, Rear Wire Holder	413		All
DZJC000383	Plate, Front Wire Holder	414		All
DZJC000384	Plate, Pulley	418		All
DZJC000385	Holder, Rear Lamp	1122		All
DZJC000386	Holder, Front Lamp	1123		All
DZJC000387	Guide, Shaft	647		All
DZJC000391	Holder, Sleeve	2118		All
DZJC000392	Carrier, Sleeve	2116		All
DZJC000395	Block	1350		All
DZJD000038	Plate, Engine FU	918		All
DZJD000039	Plate, Engine FL	915		All
DZJD000040	Bracket, Right Post	3003		All
DZJD000041	Bracket, Left Post	3023		All
DZJD000042	Bracket, Front Post	3013		All
DZJD000043	Holder, Rear Engine	933		All
DZJD000044	Holder, Contact Spring	930		All
DZJE001165	Cover, Panel	502		PU,PUG,Other
DZJE001167	Cover, Control Panel Base	529		All
DZJE001169	Cover, Control Panel (Sub Base)	530		All
DZJE001171	Cover, Aperture	537	For DP-8016P	All
DZJE001173	Cover, Key	505	For DP-8020E/8020P*	AUR, Other
DZJE001175	Holder, Battery	503		All
DZJE001177	Cover, Keyboard	533	For DP-8020E/8020P*	All
DZJE001179	Cover, Keyboard Lower	536	For DP-8020E/8020P*	All
DZJE001180	Holder, Rear Bottle	1208		Other
DZJE001181	Frame, Lower	1305		All
DZJE001184	Cover, Pipe	1335		All
DZJE001185	Cover, Gear	1318		All
DZJE001186	Cover, Developer	1302		All
DZJE001188	Plate, Rear Document	107		Other
DZJE001189	Plate, Rear Document	107		PU, PUG
DZJE001191	Plate, Rear Document	107		PK, PT
DZJE001194	Cover, Exit Roller	1101		All
DZJE001195	Cover, Fuser Roller	1126		All
DZJE001196	Cover, Front Paper Tray	3001		All
DZJE001199	Cover, Rear Fuser	1006		All
DZJE001200	Cover, Front Fuser	1007		All
DZJE001202	Cover, Printer	726		All
DZJE001205	Holder, Heater	3114		All
DZJE001206	Cover, Heater	3113		All
DZJE001207	Cover, HDD	805		All
DZJE001213	Cover, Key	505	For DP-8020E/8020P*	YVR
DZJE001214	Cover, Key	505	For DP-8020E/8020P*	AER
DZJE001216	Cover, Key	505	For DP-8020E/8020P*	AVR
DZJE001218	Cover, Panel	502		PF
DZJE001219	Cover, Panel	502		PK

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJE001221	Cover, Panel	502		PT
DZJE001223	Frame, Lower Assy	1025		All
DZJE001299	Holder, Rear Bottle	1208		PK
DZJE001308	Holder, Rear Bottle	1208		PU, PUG
DZJF000407	Guide, Upper ADF	2502		All
DZJF000408	Guide, Lower ADF	2505		All
DZJF000409	Guide, Sub Top	2705		All
DZJF000414	Guide, E	1607		All
DZJF000462	Guide, Card	833	For DP-8020E/8020P*	All
DZJF000489	Leg, Gum	3017		All
DZJF000645	Guide, Pressure Roller	1010		All
DZJF000646	Guide, Fuser Roller	1105		All
DZJF000648	Guide, Wire	307		All
DZJF000649	Guide, Front	1023		All
DZJF000650	Guide, Upper	615		All
DZJF000651	Guide, Front	616		All
DZJF000652	Tray, Guide	650		All
DZJF000653	Guide, Duplex	638		All
DZJF000654	Guide	659		All
DZJF000655	Guide, Lower	634		All
DZJF000656	Guide, Duplex	739	For DP-8020E	All
DZJF000657	Guide, Front Set	129		All
DZJF000658	Guide, Rear Set	128		All
DZJF000659	Guide, Transfer	718		All
DZJF000661	Guide, Duplex 2	732	For DP-8020E	All
DZJF000662	Lever, Guide	133		All
DZJF000668	Guide, Feed Roller	617		All
DZJF000702	Guide, SC PCB	1001		All
DZJG000013	Fly Wheel	1555		All
DZJH000026	Spacer, PCB	3128		All
DZJH000063	Spacer, PCB	832		All
DZJH000066	Spacer, PCB	3127		All
DZJH000084	Supporter, PC Board	822		Europe only
DZJH000126	Bracket, Paper Feed	3010		All
DZJH000127	Collar, Stopper	643		All
DZJH000128	Spacer, BTR Ring	705		All
DZJJ000009	Band	2124		All
DZJJ000017	Wire, Front Door	226		All
DZJK000004	Clamp	680		All
DZJK000017	Edge Saddle	3117		All
DZJK000018	Clamp	1915		All
DZJK000023	Clamp	681		All
DZJK000045	Clamp	429		All
DZJK000046	Clamp	430		All
DZJK000057	Clamp	699		All
DZJK000067	Clamp	3115		All
DZJK000068	Clamp 2, Locking	3116		All
DZJK000070	Clamp	940		All
DZJK000079	Clamp	831		All
DZJK000106	Holder, Lamp Harness	311		All
DZJL000023	Plate, Ground	947	For DP-8020E/8020P*	All
DZJL000115	Bushing	2321		All
DZJL000215	Holder, TDC Sensor	1332		All
DZJL000362	Plate, Nut	1405		All
DZJL000394	Plate, Rear Bias	1325		All
DZJL000395	Wire, Rear	303		All
DZJL000396	Wire, Front	305		All
DZJL000397	Plate, Pressure	649		All
DZJL000398	Shaft, OPC	1445		All
DZJL000399	Case, Charge	1444		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJL000400	Grid, Charge	1433		All
DZJL000401	Wire, Charge	1443	PM	All
DZJL000402	Holder, Charge Wire	1436		All
DZJL000403	Guide, Lever	1429		All
DZJL000404	Plate, Discharge	704		All
DZJL000414	Plate, Lift	1613		All
DZJM000013	Plate, Pressure	2005		All
DZJM000159	Base, Actuator	2205		All
DZJM000171	Snap Ring	S9		All
DZJM000377	Sponge, Cap	1424		All
DZJM000406	Guide, Inverting Feed	2711		All
DZJM000407	Cover, Sub ADF	2628		All
DZJM000408	Holder, ADF	2313		All
DZJM000409	Stopper, Original	2506		All
DZJM000410	Guide, Front ADF	2312		All
DZJM000411	Guide, Rear ADF	2311		All
DZJM000412	Lever, Release	2404		All
DZJM000413	Holder, Separation Roller	2513		All
DZJM000414	Gear 2, Pre Feed	2020		All
DZJM000415	Bushing	2508		All
DZJM000416	Bushing, Torque Limiter	2510	PM	All
DZJM000418	Guide, Feed 2 Roller	2518		All
DZJM000419	Holder, Sensor C	2519		All
DZJM000420	Guide 1, Reversing	2516		All
DZJM000421	Joint	2415		All
DZJM000422	Adjuster	2414		All
DZJM000423	Guide, Inverting 1	2432		All
DZJM000424	Guide, Inverting 2	2430		All
DZJM000425	Guide, Duplex 2	2431		All
DZJM000426	Lever, Duplex 2 Guide	2434		All
DZJM000427	Guide, Upper Feed	2701		All
DZJM000429	Holder, Stamp	2129		All
DZJM000430	Lever, Stopper	2420		All
DZJM000431	Plate, Moving Gear	2408		All
DZJM000432	Cover, Gear Bracket	2405		All
DZJM000434	Holder, Spring T	2303		All
DZJM000435	Holder, Spring B	2304		All
DZJM000442	Film, ADF Pre Feed	2514		All
DZJM000449	Film, Hinge	2115		All
DZJM000469	Sleeve, Right	2119		All
DZJM000475	Slider	2121		All
DZJM000476	Sponge	2630		All
DZJM000477	Stopper, Rubber	2421		All
DZJM000486	Seal, White Reference	2108		All
DZJM000491	Film, Reversing Guide 1	2523		All
DZJM000670	Base, ADF	1705		All
DZJM000672	Guide, Lower Paper Feed	2002		All
DZJM000673	Guide, Upper Paper Feed	2017		All
DZJM000674	Actuator, Timing	2004		All
DZJM000675	Actuator, NP	2008		All
DZJM000676	Actuator, Original Width	1713		All
DZJM000677	Holder, Stamp	1811	For DP-8020E/8020P*	All
DZJM000678	Lever, Pressure Adjustment	2007		All
DZJM000679	Base, Left Hinge	1804		All
DZJM000680	Guide, Left Spring	1806		All
DZJM000681	Holder, Upper Left Spring	1809		All
DZJM000682	Cover, Pad	2023		All
DZJM000683	Stopper, ADF Cover	2013		All
DZJM000684	Base, Hinge Right	1818		All
DZJM000685	Holder, Roller	2026		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJM000686	Stopper, Original	2016		All
DZJM000687	Guide, Rack	2028		All
DZJM000688	Guide, Spring Right	1819		All
DZJM000690	Holder, Left Spring	1807		All
DZJM000691	Rack, Pickup	2027		All
DZJM000692	Sheet, White	1814		All
DZJM000888	Film, Front	2123		All
DZJM000926	Film, Lower	1825		All
DZJM000927	Film, Upper	1826		All
DZJM001076	Sheet	3137		All
DZJM001230	Guide, Lower Feed	2707		All
DZJM001241	Spacer	1717		All
DZJM001283	Sheet, Guide 2	2714		All
DZJM001284	Guide, Film A	2713		All
DZJM001285	Film, Top Cover	2127		All
DZJM001308	Film, Bottle Shutter	1213		All
DZJM001309	Sheet, Toner	1309		All
DZJM001311	Film, Pipe	1333		All
DZJM001313	Roller, Spacer	1409		All
DZJM001314	Bushing, OPC	1404		All
DZJM001315	Slider	1315		All
DZJM001317	Frame, Mirror 1	407		All
DZJM001318	Guide, OPS	114		All
DZJM001319	Guide, Lamp Harness	422		All
DZJM001321	Guide, Paper Tray	3101		All
DZJM001322	Guide, Paper	3022		All
DZJM001324	Sheet, Splash Prevention	1415	PM	All
DZJM001325	Sponge, Cleaning	1412	PM	All
DZJM001326	Screw, WT	1420		All
DZJM001327	Pipe, WTB	1426		All
DZJM001328	Sponge, Long Cleaning	1413		All
DZJM001329	Sponge, Short Cleaning	1414		All
DZJM001330	Holder, OPC Drum Shaft	1407		All
DZJM001331	Cap, WT	1422		All
DZJM001332	PDL, WTB	1417		All
DZJM001333	Film, PDL	1416		All
DZJM001337	Base, Charge Cleaning	1439		All
DZJM001338	Base, Pad	1441		All
DZJM001339	Lever, Cleaning	1428		All
DZJM001340	Pad, Cleaning	1440		All
DZJM001341	Handle, Cleaning Lever	1427		All
DZJM001342	Sponge, Charge	1430		All
DZJM001343	Film, Separation Roller	655		All
DZJM001344	Film, Rear Guide	636		All
DZJM001345	Film, Lower Guide	635		All
DZJM001347	Slider	408		All
DZJM001349	Sheet, Paper Guide	3021		All
DZJM001357	Film, Front Guide	637		All
DZJM001358	Sheet, Protection	1828		All
DZJM001363	Film, Airflow Control	950		All
DZJM001366	Sheet, Protection	319		All
DZJM001369	Film, Paper Guide	1617		All
DZJM001372	Holder, Rear Charge	1437		All
DZJM001373	Holder, Charge	1431		All
DZJM001375	Film, Charge Side	1454		All
DZJM001378	Film, Guide	666		All
DZJM001381	Sheet, Guide	667		All
DZJM001387	Damper	692		All
DZJM001388	Film, Guard	668		All
DZJM001402	Actuator, ADF	4303		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZJM001403	Actuator, OPS	116		All
DZJM001406	Separator	1109	PM	All
DZJN000052	Rubber, Separation	2024	PM	All
DZJN000076	Gum, Paper Tray	948		All
DZJN000085	Blade, Cleaning	1408	PM	All
DZJN000086	Sheet, Toner Dispersion	1301		All
DZJN000087	Plate, Rubber	315		All
DZJN000088	Roller, Exit 2	1104		All
DZJN000093	Rubber, CCD Frame	428		All
DZJP000005	Plate, Pad Pressure	1620		All
DZJP000026	Felt	2117		All
DZJP000063	Felt, Front Cleaning	1410	PM	All
DZJP000064	Felt, Rear Cleaning	1411	PM	All
DZJP000065	Board, Pad	684		All
DZKB000641	Key, Reset	508		All
DZKB000669	Key, B	522		All
DZKB000762	Key, Stop	507		All
DZKB000796	Key, Start	509		All
DZKB000923	Key, Touch 2	528		All
DZKB000924	Key, Touch 3	527		All
DZKB000927	Keys, Numerical	510	For DP-8020E/8020P*	PU, PUG
DZKB000928	Keys, Numerical	510	For DP-8020E/8020P*	Except PF, PU, PUG
DZKB000929	Keys, Numerical	510	For DP-8016P	All
DZKB000929	Keys, Numerical	510	For DP-8020E/8020P*	PF
DZKB000930	Key, Function	512		All
DZKB000931	Key, A	521		All
DZKG000107	Shaft, Pre Feed Roller	2316		All
DZKG000108	Shaft, Pinch Roller	2623		All
DZKG000109	Shaft, ADF	2310		All
DZKG000110	Shaft, Pinch 2	2712		All
DZKG000112	Shaft, Drive Pinch	2703		All
DZKG000113	Shaft	2603		All
DZKG000114	Shaft 1, Drive	2614		All
DZKG000115	Shaft 2, Drive	2615		All
DZKG000150	Shaft, Drive Pinch	2014		All
DZKG000151	Shaft, Pre Feed	2019		All
DZKG000152	Shaft, Left Hinge	1803		All
DZKG000153	Paper Feed Shaft Assembly	2029		All
DZKG000154	Shaft, Hinge Right	1817		All
DZKG000376	Shaft, DR	1345		All
DZKG000377	Shaft 1, Idle	1320		All
DZKG000378	Shaft 2, Idle	1322		All
DZKG000381	Shaft, Drum Drive	1537		All
DZKG000382	Shaft, Mag Drive	1533		All
DZKG000383	Shaft, Feed	626		All
DZKG000384	Shaft, Pickup	620		All
DZKG000405	Shaft, Reverse	633		All
DZKG000416	Shaft, Separation Roller	2507		All
DZKG000419	Pin, Fulcrum	697		All
DZKG000420	Assembly, Arm Shaft	1616		All
DZKG000422	Shaft, P8L	2301		All
DZKG000423	Shaft, P8S	2302		All
DZKG000424	Shaft, P6	2104		All
DZKJ000017	Plate, DIAL	911		All
DZKK000090	Stopper, Tray	743		All
DZKK000119	Lever, SA	913		All
DZKK000120	Lever, Interlock	229		All
DZKK000121	Actuator 2	1128		All
DZKK000122	Plate, Front Pressure	1019		All
DZKK000123	Actuator, 2nd Paper Feed	3102		All

Alphanumerical Parts List				
Part Number	**Part Name**	**Ref. No.**	**Remarks**	**Destination**
DZKK000124	Plate, Rear Pressure	1018		All
DZKK000126	Latch, Arm	611		All
DZKK000128	Arm, OP Paper Tray Connect	3108		All
DZKK000129	Arm, Reverse	631		All
DZKK000130	Arm, Rear Frame	719		All
DZKK000131	Arm, Rear Cover	720		All
DZKL000083	Lever, Paper Exit Sensor	607		All
DZKL000084	Actuator, Registration Sensor	608		All
DZKL000085	Actuator, No Paper	660		All
DZKL000086	Lever, Release	723		All
DZKL000087	Actuator, Paper Tray	123		All
DZKL000088	Actuator, Duplex Paper	731	For DP-8020E	All
DZKM000020	Sheet, ADF	2032		All
DZKN000006	Coil Spring, Idle Gear	2407		All
DZKN000126	Spring, Gear	2619		All
DZKN000178	Spring, Cap	1425		All
DZKN000181	Spring, Timing Roller	708		All
DZKN000184	Spring, Separation Roller	2512		All
DZKN000185	Spring, Reversing Guide 1	2412		All
DZKN000186	Spring, Duplex 2 Guide	2433		All
DZKN000187	Spring, White Reference Seal Guide	2107		All
DZKN000188	Spring	2417		All
DZKN000207	Coil Spring, Ground	2109		All
DZKN000209	Spring, Latch	2317		All
DZKN000231	Spring, Hinge Support	2318		All
DZKN000266	Spring, Actuator	117		All
DZKN000267	Spring, Latch	1904		All
DZKN000268	Spring, White Front	1810		All
DZKN000269	Spring, Upper Left Hinge	1808		All
DZKN000270	Spring, Lower Left Hinge	1805		All
DZKN000271	Spring, White Rear	1704		All
DZKN000272	Spring, Pick Up	2022		All
DZKN000273	Spring, Hinge Right	1820		All
DZKN000398	Spring, Coil	1343		All
DZKN000401	Spring, Joint	1313		All
DZKN000403	Spring, Motor	314		All
DZKN000404	Spring, Wire	306		All
DZKN000405	Spring, OPC Drive	1536		All
DZKN000406	Spring, Mag Drive	1532		All
DZKN000407	Spring, Pressure	1008		All
DZKN000408	Spring, Idle ADU	1017	For DP-8020E	All
DZKN000409	Spring, Ground	1022		All
DZKN000410	Spring, Contact	929		All
DZKN000412	Spring, Lift Up	3135		All
DZKN000413	Spring, Toner	1509		All
DZKN000415	Spring, Charge	1435		All
DZKN000416	Spring, Reverse	686		All
DZKN000417	Spring, Release	729		All
DZKN000418	Spring, BTR	707		All
DZKN000420	Spring, Fulcrum	664		All
DZKN000422	Spring, Hinge (Silver, i-ADF)	2320		All
DZKP000084	Spring, Pinch Roller	3020		All
DZKP000200	Plate Spring, Pinch Roller	2629		All
DZKP000201	Plate Spring, Pinch 1	2710		All
DZKP000202	Plate Spring, Pinch Roller	2503		All
DZKP000203	Plate Spring, Discharge	2708		All
DZKP000204	Plate Spring 2, Discharge	2625		All
DZKP000205	Holder, Pinch Roller	2424		All
DZKP000206	Plate Spring, Ground	2425		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZKP000207	Plate Spring, Drive	2704		All
DZKP000215	Plate Spring, ADF Input Tray	2111		All
DZKP000225	Plate, Star Wheel	1450		All
DZKP000251	Plate, Exit	2011		All
DZKP000280	Spring, 2/3 Mirror	420		All
DZKP000358	Spring, Plate	2128		All
DZKP000365	Spring, Speaker	513		All
DZKP000366	Spring, PS	922		All
DZKP000367	Spring, PS Cover	920		All
DZKP000368	Spring, Paper Tray Ground	935		All
DZKP000370	Plate, Mirror 1 Spring	409		All
DZKP000371	Plate, Ground	1005		All
DZKP000372	Plate, Ground 2	1024		All
DZKP000373	Plate, Idle Spring	1002		All
DZKP000374	Spring, LAN	812		All
DZKP000375	Ground Spring	662		All
DZKP000376	Lead, HV Bias Transfer	713		All
DZKP000377	Lead, Pinch Roller Timing	715		All
DZKP000378	Lead, Plate Discharge	714		All
DZKP000379	Bracket, Pinch Roller	727	For DP-8020E	All
DZKP000380	Lead, BTR Frame	932		All
DZKP000384	Plate 2, Ground	1504		All
DZKP000385	Plate 1, Ground	517		All
DZKP000388	Spring, Ground	3024		All
DZKP000389	Plate, Ground	1451		All
DZKQ000012	Spring, Actuator	2204		All
DZKQ000031	Spring, Torque Limiter	2511	PM	All
DZKQ000042	Spring, Introduction	2319		All
DZKQ000051	Spring, B1 Sensor	2631		All
DZKQ000070	Spring, Timing	2003		All
DZKQ000071	Spring, Original Length	1716		All
DZKQ000073	Spring, Ground	1919		All
DZKQ000074	Spring, NP Actuator	2009		All
DZKQ000106	Spring, Return	3103		All
DZKQ000107	Spring, Pickup	625		All
DZKQ000108	Spring, Actuator	1107		All
DZKQ000109	Spring, Opening	1011		All
DZKQ000110	Spring, Latch	614		All
DZKQ000111	Spring, Registration Sensor	609		All
DZKQ000115	Spring, OP Drive	3109		All
DZKQ000116	Spring, Front	656		All
DZKQ000117	Spring, Rear	657		All
DZKQ000119	Spring, DC	206		All
DZKQ000120	Spring, Actuator	730	For DP-8020E	All
DZKR000004	Spring, Pressure Plate	2006		All
DZKR000024	Spring, Sensor B2	2524		All
DZKR000032	Spring, Ground	1707		All
DZKR000037	Spring, Pinch Roller Pressure	2031		All
DZKR000038	Spring, Tray Hold Up	121		All
DZLA000080	Roller 1, Pinch	2130		All
DZLA000083	Roller, Idle	1003		All
DZLA000198	Roller, Paper Tray	3016		All
DZLA000204	Roller, Pre Feed	2018	PM	All
DZLA000205	Roller, ADF	2314	PM	All
DZLA000206	Roller, Separation	2509	PM	All
DZLA000211	Roller 2, Pinch	2624		All
DZLA000216	Roller, Paper Feed	2001	PM	All
DZLA000257	Roller, Feed	2010		All
DZLA000258	Roller, Exit 1	1812		All
DZLA000304	Roller, Drive Pinch	2015		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZLA000326	Roller, Exit Pinch	2012		All
DZLA000356	Roller, Paper Tray	1609		All
DZLA000357	Roller, Idle 2	1009		All
DZLA000358	Roller, ADU	1016	For DP-8020E	All
DZLA000359	Roller, Intermediate	3104		All
DZLA000360	Roller, Feed	623	PM	All
DZLA000362	Roller, Pressure	1021	PM	All
DZLA000363	Roller, Pickup	619	PM	All
DZLA000365	Roller, Separation	658	PM	All
DZLA000366	Roller, Reverse	629	PM	All
DZLA000367	Roller, Pinch Timing	712		All
DZLA000368	Roller, Bias Transfer	711	PM	All
DZLA000369	Roller, Duplex Pinch	728	For DP-8020E	All
DZLA000370	Roller, Duplex Feed	735	For DP-8020E	All
DZLA000371	Roller, Registration	601		All
DZLA000381	Roller, Feed 2	2517		All
DZLA000382	Roller, Exit 3	2515		All
DZLA000383	Roller, Inverting Feed	2428		All
DZLA000384	Roller, Drive	2706		All
DZLA000415	Roller, Feed	689	PM	All
DZLA000418	Roller, Fuser	1115	PM	All
DZLB000013	Pulley	2611		All
DZLB000022	Pulley, Scanner	312		All
DZLB000060	Pulley, 19 Duplex	736	For DP-8020E	All
DZLC000001	Pulley, Idler	308		All
DZLD000024	Drum, Wire	302		All
DZLF000008	Gear, D16	2608		All
DZLF000015	Gear, B44	2406		All
DZLF000028	Gear, E14E25	2309		All
DZLF000036	Gear, E25	2308		All
DZLF000077	F Gear, D14	1710		All
DZLF000172	Gear, B42E27	2410		All
DZLF000191	Gear, D24E18	2609		All
DZLF000199	Gear, E39 Fuser Roller	1112		All
DZLF000208	Gear, Guide	125		All
DZLF000283	Gear, E29	2605		All
DZLF000315	F Gear, E16	1909		All
DZLF000327	Gear, B18	2419		All
DZLF000329	Gear, ADF	2315		All
DZLF000330	Gear 1, Pre Feed	2021		All
DZLF000331	Gear, E26S35 Drive	2604		All
DZLF000332	Gear, E18 Drive	2423		All
DZLF000333	Gear, E21E27	2606		All
DZLF000334	Gear, E21 Drive	2616		All
DZLF000335	Gear, D24E18	2607		All
DZLF000342	Gear, E20	741	For DP-8020E	All
DZLF000354	Gear, E25	740	For DP-8020E	All
DZLF000382	Gear, E18	2307		All
DZLF000385	F Gear, D16	2030		All
DZLF000452	Pulley, S27	1910		All
DZLF000453	F Gear, E20S20	1907		All
DZLF000454	F Gear, E28S22	1908		All
DZLF000456	D Gear, D26	2025		All
DZLF000465	Gear, Tray	1611		All
DZLF000697	Gear, Pipe 15	1341		All
DZLF000698	Gear, Pipe 15T	1346		All
DZLF000699	Gear, Screw 1	1327		All
DZLF000700	Gear, Screw 2	1330		All
DZLF000701	Coupling 1	1317		All
DZLF000702	Gear, Idle	1319		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZLF000703	Gear 2, Idle	1321		All
DZLF000705	Knob, JAM Release	1013		All
DZLF000706	Gear, Exit Roll	1102		All
DZLF000707	Gear 2, Drum	1529		All
DZLF000708	Gear 1, Drum	1538		All
DZLF000709	Gear 1, Mag	1534		All
DZLF000710	Gear, Pickup Drive	624		All
DZLF000711	Gear, Pickup Idler	621		All
DZLF000713	Gear 3, Drum	1528		All
DZLF000714	Gear 2, Mag	1530		All
DZLF000715	Gear 3, MG	1524		All
DZLF000716	Gear, Fuser Drive	1517		All
DZLF000717	Gear 2, Fuser Idle	1522		All
DZLF000718	Gear, Waste Toner Drive	1519		All
DZLF000719	Gear 2, Waste Toner Idle	1521		All
DZLF000720	Gear 1, Registration Idle	1526		All
DZLF000721	Gear 3, Fuser Idle	1523		All
DZLF000722	Gear 4, Fuser Idle	1525		All
DZLF000723	Gear 2, Registration Idle	1527		All
DZLF000724	Gear 1, Waste Toner Idle	1520		All
DZLF000726	Gear 1, Exit Idle	3110		All
DZLF000731	Gear, PDL Joint	1419		All
DZLF000732	Gear, Lift Up 2	3136		All
DZLF000733	Gear, Lift Up Coupling	3120		All
DZLF000734	Gear 1, Lift Up	3123		All
DZLF000735	Gear, Toner Drive	1508		All
DZLF000736	Gear, Toner Sensor	1505		All
DZLF000737	Gear 1, Toner Idle	1507		All
DZLF000738	Gear 2, Toner Idle	1510		All
DZLF000739	Gear 3, Toner Idle	1506		All
DZLF000740	Gear 1, OP Paper Tray Idle	3106		All
DZLF000741	Gear 3, OP Paper Tray Idle	3111		All
DZLF000742	Gear 1, 3rd OP Drive	3303		All
DZLF000743	Gear 2, 3rd OP Drive	3302		All
DZLF000745	Gear, BTR 27	706		All
DZLF000746	Gear, 17 Pinch Timing Roller	710		All
DZLF000747	Gear, 15 Duplex	738	For DP-8020E	All
DZLF000748	Gear, 18 Timing Roller	602		All
DZLG000035	Clutch, One-way	622		All
DZLK000013	Belt 2, Timing	2612		All
DZLK000023	Belt, Drive 2	1912		All
DZLK000029	Belt, Drive 1	1911		All
DZLK000031	Belt, Timing T1	737	For DP-8020E	All
DZLK000043	Belt 1, Timing	1513		All
DZLK000044	Belt, Synchro	318		All
DZLL000005	Wheel, Star	1402		All
DZLM000006	Bushing 2, P6L5	603		All
DZLM000007	Bushing, P6L7.4	2122		All
DZLM000046	Bushing, P6	2422		All
DZLM000050	Bushing, P6L8	642		All
DZLM000052	Bushing, P6L5 Conductor	1103		All
DZLM000072	Bushing, P6L8	1813		All
DZLM000132	Bushing, Pressure Roller	1020	PM	All
DZLM000133	Bushing, Bias Transfer	709		All
DZLM000134	Bushing, Rear	734	For DP-8020E	All
DZLM000157	Bearing, Screw	1323		All
DZLM000194	Bearing, Paddle	1328		All
DZLM000203	Bushing 2, Joint	1342		All
DZLM000204	Bushing, Joint	1340		All
DZLM000205	Bearing, PL Screw	1336		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZLM000207	Bearing, Mag	1348		All
DZLM000208	Bushing, Fuser Roller	1114	PM	All
DZLM000209	Bearing 1	1546		All
DZLM000210	Bearing 2	1547		All
DZLM000211	Bushing, Screw	1418		All
DZLM000212	Bushing, Left	651		All
DZLM000213	Bushing	618		All
DZLM000214	Bushing	317		All
DZLM000215	Collar, Timing Roller	604		All
DZLM000216	Bearing 3	1548		All
DZLM000217	Bearing 4	1549		All
DZLN000007	Joint, OPC	1535		All
DZLN000022	Coupling, Mag	1531		All
DZMA002329	Cover, ADF	2126		All
DZMA002333	Base, ADF	2110		All
DZMA002335	Cover, ADF Front	2210		All
DZMA002337	Cover, ADF Rear	2101		All
DZMA002339	Cover, ADF Exit	2429		All
DZMA002341	Tray, ADF Input	2201		PU,PUG
DZMA002343	Cover, ADF Tray Bottom	2208		All
DZMA002348	Rack, Original Guide	2207		All
DZMA002394	Cover, Platen	103		All
DZMA002474	Tray, ADF Input	2201		Other
DZMA003291	Cover, ADF Front	1702		All
DZMA003293	Cover, ADF Rear	1701		All
DZMA003295	Cover, ADF	1902		All
DZMA004338	Guide, Original Front	2203		All
DZMA004339	Guide, Original Rear	2202		All
DZMA004372	Cover 2, Hinge	2131		All
DZMA004431	Cover, Right Paper Tray	3002		All
DZMA004432	Cover, Rear Paper Tray	3004		All
DZMA004440	Cover, Connector	203		All
DZMA004441	Cover, Left Scanner	101		All
DZMA004443	Cover, Rear Scanner	102		All
DZMA004445	Cover, Right Scanner	132		All
DZMA004447	Cover 1, Front	211		All
DZMA004449	Cover, Right	216		All
DZMA004450	Cover, Left Front	215		All
DZMA004451	Cover, Rear Side	218		All
DZMA004452	Cover, Inner	219		All
DZMA004453	Cover, Exit	202		All
DZMA004454	Cover, Rear	220		All
DZMA004500	Cover, F Card	217		All
DZMA004817	Cover, Front Door	201	For DP-8020E/8020P*	All
DZMA004818	Cover, Front Door	201	For DP-8016P	All
DZMB000024	Bracket, Rear Lower Right	3007		All
DZMB000025	Bracket, Rear Lower Left	3008		All
DZMB000026	Cover, Jam Access	3015		All
DZMC000713	Cover, Hinge	2113		All
DZMC000821	Plate, Base	931		All
DZMC000822	Frame, Front	910		All
DZMC000823	Bracket, Center	906		All
DZMC000824	Bracket, Right	803		All
DZMC000825	Handle	806		All
DZMC000827	Guard, Fan	826		All
DZMC000828	Cover, Sub Tray	1601	For Other Paper Tray	All
DZMC000829	Cover, Sub Tray	1601	For 1st Paper Tray	All
DZMG000018	Latch	2323		All
DZMG000038	Latch, Waste Toner Box	214		All
DZMG000041	Catcher, Magnet	3018		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZMH000013	Hinge, Platen	105		All
DZMH000029	Blade, Doctor	1304		All
DZML000422	Tray, Original Lower	1706		All
DZML000432	Tray, Original Upper	1712		PU,PUG
DZML000433	Tray, Original Upper	1712		Other
DZML000478	Tray, Spill	1202		All
DZML000479	Base, Paper Tray	1603		All
DZML000480	Cover, Paper Tray	1602	For 1st Paper Tray	All
DZML000481	Guide, Front	1605		All
DZML000482	Guide, Rear	1606		All
DZML000483	Plate, Bottom	1610		All
DZML000484	Lever, Guide	1604		All
DZML000487	Cover, Paper Tray	1602	For Other Paper Tray	All
DZML000488	Tray, Bypass	126		All
DZML000489	Cover, Bypass Tray	120		All
DZML000490	Tray, Sub Bypass	124		All
DZML000491	Tray, Sub Bypass 2	122		All
DZML000499	Guide, Original Front	1711		All
DZML000500	Guide, Original Rear	1714		All
DZML000504	Tray, Original Upper	1712		PK
DZML000507	Tray, Original Front	1708		All
DZML000508	Tray, Sub	2209		All
DZMM000038	Foot, Damping	939		Except PU, PT, PUG, PK
DZNA001040	Lamp, Active	515		All
DZNA001042	Key	506	For DP-8020E/8020P*	All
DZNA001044	Holder, LCD	520		All
DZNA001046	Key, Copy	523	For DP-8020E/8020P*	All
DZNA001047	Key, Fax/E-mail	524	For DP-8020E/8020P*	All
DZNA001048	Key, Scan/File	525	For DP-8020E/8020P*	All
DZNA001049	Key, Print	526		All
DZNA001051	Cover, Harness Protection	518		All
DZNA001053	Sheet, Keyboard Base	532	For DP-8020E/8020P*	All
DZNA001055	Sheet, Keyboard	531	For DP-8020E/8020P* (English)	All
DZNA001058	Sheet, Keyboard	531	For DP-8020E/8020P* (French)	All
DZNA001059	Sheet, Keyboard	531	For DP-8020E/8020P* (German)	All
DZNA001153	Window, Panel	501	For DP-8020P*	PU,PUG,Other
DZNA001154	Window, Panel	501	For DP-8020E	PU,PUG,Other
DZNA001155	Window, Panel	501	For DP-8016P	PU,PUG,Other
DZNA001156	Window, Panel	501	For DP-8020P*	PK
DZNA001157	Window, Panel	501	For DP-8020E	PK
DZNA001158	Window, Panel	501	For DP-8016P	PK
DZNA001159	Window, Panel	501	For DP-8020P*	PF
DZNA001160	Window, Panel	501	For DP-8020E	PF
DZNA001161	Window, Panel	501	For DP-8016P	PF
DZNA001162	Window, Panel	501	For DP-8020P*	PT
DZNA001163	Window, Panel	501	For DP-8020E	PT
DZNA001164	Window, Panel	501	For DP-8016P	PT
DZNE000117	Film, Paper Approach Guide	1307		All
DZNE000129	Sheet, Harness	135		All
DZNE000132	Spacer	670		All
DZNK002411	Label, Ground Warning	235		PB, PS
DZNK003248	Label, Class A	236		PK
DZNK004580	Label, Energy	234		PB
DZNK004940	Label, Paper Tray	3416		PU, PUG
DZNK004942	Label, Paper Tray	3416		PK Except PU, PUG
DZNK005265	Label, High Temperature	1026		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZNK005266	Label, Bypass Tray	127		Other
DZNK005268	Label, Laser Caution	209		PU, PUG, Other
DZNK005269	Label, Toner Bottle	210		All
DZNK005270	Label, Toner Bottle Exchange	204		All
DZNK005283	Label, Heater Main	224		PU, PUG, Other
DZNK005284	Label, Switch	225		All
DZNK005316	Label, Bypass Tray	127		PU, PUG
DZNK005416	Label, Paper Size	4505		Other
DZNK005417	Label, Paper Size	4505		PU, PUG
DZNK005420	Label, Paper Size	4505		PK
DZNK005449	Label, Laser Caution	209		PK, PT
DZNK005454	Label, TEL	3904		All
DZNK005455	Label, LINE	3905		All
DZNM000005	Logo, Panasonic	539		All
DZPA000064	Screw, Thumb	M2		All
DZPA000075	Screw, Drum Unit Fix	1421		All
DZPA000086	Screw	S6		All
DZPA000089	Screw	X2		All
DZPA000091	Screw	937		Except PU, PT, PUG, PK
DZPA000092	Screw	938		All
DZPA000093	Screw	827		All
DZPA000097	Screw	232		All
DZPB000007	Screw, Silver	B1		All
DZPB000020	Screw	C2		All
DZPG000001	Pin	2327		All
DZPJ000004	Ring	1113		All
DZPK000017	Washer	2326		All
DZPK000032	Polyslider	1550		All
DZQE000003	Rosette	3906		YCR, YGR, YSR, YVR, YAR, YYR
DZQE000005	Rosette	3906		APR
DZQJ000022	Hook and Loop Fastener Tape (Loop Side)	1823		All
DZQJ000083	Tape, Block	1351		All
DZRB000101	Box, Carton	4601		All
DZRB000143	Box	3501		All
DZRB000580	Box, Carton	4102		All
DZRB000733	Box, Carton	3902		All
DZRB000750	Cushion, HD	4101		All
DZRB001070	Box, Carton	4004		All
DZRB001139 A	Box, Carton	4501	For 3rd Paper Tray	PU,PUG
DZRB001140 A	Box, Carton	4501	For 3rd Paper Tray	Other
DZRB001141 A	Box, Carton	4501	For 2nd/4th Paper Tray	PU, PUG
DZRB001142 A	Box, Carton	4501	For 2nd/4th Paper Tray	Other
DZRB001143 B	Box, Carton	4501	For 3rd Paper Tray	PU,PUG
DZRB001144 B	Box, Carton	4501	For 3rd Paper Tray	Other
DZRB001145 B	Box, Carton	4501	For 2nd/4th Paper Tray	PU, PUG
DZRB001146 B	Box, Carton	4501	For 2nd/4th Paper Tray	Other
DZRH000479	Sheet, Cushion	4406		All
DZRH000601	Assembly, Cushion	4502		All
DZRH000621	Cushion, Top	4002		All
DZRH000622	Cushion, Bottom	4003		All
DZSD002217	Operating Instructions	3803		YVR
DZSD002219	Operating Instructions	3803		AER
DZSD002231	Quick Guide	3802		AUR, YYR
DZSD002232	Quick Guide	3802		Other
DZSD002234	Quick Guide	3802		YPR, YRR
DZSM000523	Installation Instructions	4404		All
DZSM000551	Installation Instructions	4306		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
DZSM000741	Installation Instructions	4202		All
DZSM000756	Installation Instructions	3503		Europe only
DZSM000811	Installation Instructions	4504		All
DZSM000812	Installation Instructions	4103		All
DZSM000813	Installation Instructions	3901		All
DZSM000815	Installation Instructions	4001		All
DZSM000818	Installation Instructions	4602		All
DZSM000820	Installation Instructions	4701		All
DZSM000825	Installation Instructions	4801		All
DZTC000052	Mirror 1	415		All
DZTC000053	Mirror 2	421		All
DZTD000004	Sheet, Reflective	411		All
DZTE000025	Glass, Platen (L)	106		All
DZTE000052	Glass, Scanning (S)	110		All
DZTK000002	Counter	821		PB, PF, PM, PP, PS
DZTT000614	Pin 1	1551		All
DZTT000711	Box, Carton	4802		All
DZTT000718	Pin 2	1552		All
DZTY000311	Assembly, Main Drive	1540		All
DZTY000312	Assembly, Bottle Drive	1539		All
DZTY000314	Assembly, Feed Drive	1541		All
DZTY000315	Assembly, Exit Drive A	1542	For DP-8020P*/8016P	All
DZTY000316	Assembly, Exit Drive B	1543	For DP-8020E	All
DZTY000317	Assembly, Exit Drive A	1542	For DP-8020E	All
DZTY000357	Assembly, Lift Up Drive	3132		All
DZUF000008	Screw, Supply	1337		All
DZUF000009	Screw 1	1329		All
DZUF000010	Screw 2	1331		All
DZUJ000017	Cleaner, Bottle Shutter	1209		All
DZUJ000019	Seal, Frame	1308		All
DZUJ000021	Seal, Pipe	1334		All
DZUJ000023	Packing, Inner Cover	233		All
ETXDN478AAEA	PC Board, PS	2901		PU, PUG, PT
ETXDN478EAEA	PC Board, PS	2901		Except PU, PUG, PT, PK
ETXDN478EAEC	PC Board, PS	2901		PK
FFPCP0034	Heater	424		All
FFPFJ0033B	Snap Ring	S9		All
FFPFJ0039B	Snap Ring	G6		All
FFPFJ0041B	Snap Ring	H7		All
FFPFJ0043B	Snap Ring	K9		All
FFPFJ00441	Ring, Stopper	3119		All
FFPHQ0063	Coupling 2	3118		All
FFPKD07791	Bracket, Heater	936		All
FFPLK0381B	Latch	1903		All
FFPLN0005	Spring	1127		All
FFPLP0769C	Spring, Terminal	716		All
FFPMF10281	Gear 2, Lift Up	3121		All
FFPMF1029	Gear 3, Lift Up	3122		All
FFPMF1031B	Gear, Worm	3125		All
FFPMQ0536	Bushing, 8 Metal	3105		All
FFPMQ0648	Bushing, Front	733	For DP-8020E	All
FFPMQ0649	Bushing	698		All
FFPMV0001	Polyslider Washer	1558		All
FFPTE1621B	Label, HV Caution	830		All
FFPTE2259	Label, HV	426		All
FFPTE2719	Label, F-ROM	223	For DP-8020E/8020P*	All
G0A173J00001	Coil 1	819		Except PU, PT, PK, PUG
G0A352H00002	Coil 2	820		Except PU, PT, PUG

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
K0AHLE000003	Switch, Interlock	227		All
K0BDB0000080	Thermostat	1120	For DP-8020E/8020P*	All
K2CH3DH00002	Cord, AC Power	3406		PU, PUG, PT
K2CK3DH00027	Cord, AC Power	3406		PK
K2CM3DH00013	Cord, AC Power	3406		PF, PM, PP, PS
K2CT3DH00023	Cord, AC Power	3406		PB,PY
K2ME4B000001	Plug, PTT	3907		AMR
K5X216BG0002	Fuse, Thermal	1118		All
L2BA00000007	PC Board, HSU	817		All
L2DA00000126	Sensor, Toner	1349		All
L6FALEGK0018	Fan, Rear	815	For DP-8020E/8020P*	All
L6HBHHGC0011	Motor, ADF	1905		All
L6HBJJGB0001	Motor, ADF	2601		All
L9AAAABA0002	Solenoid, Stamp	1824	For DP-8020E/8020P*	All
L9AAABFB0001	Solenoid	1545		All
L9AAAEGB0006	Solenoid	2403		All
L9AABCEZ0001	Solenoid	2411		All
L9EAAJ000020	Clutch	2324		All
L9EAAJ000021	Clutch	2632		All
L9EAAJ000022	Clutch	2325		All
L9EAAK000009	Clutch, Micro 2	694		All
L9EAAK000010	Clutch, Micro 1	695		All
LPA3612F-BR	LSU Unit	829		Except PU, PUG, PK, PT
LPA3612F-R	LSU Unit	829		PU, PUG, PK, PT
M0CE00000028	HDD Unit	804		All
MGG03204Z03	LCD Module	519		All
PFJA04B006Y	Cord, Line	3903		ENR
PFJA05B001Y	Cord, Line	3903		ARR, AVR
PFJA05B001Y	Plug, PTT	3907		AVR
PJBAC0044Z	Case, Clutch	640		All
PJBCB0016Z	Key, Contrast	516		All
PJBCB0018Z-1	Key, Zoom	511		All
PJBLC0026Z	Arm	1560		All
PJBUC0091Z	Plate, Exit	2034		All
PJBUC0105Z	Plate, Ground Drive	953		All
PJBVC0149Z	Spring, Clutch	641		All
PJBVC0150Z	Spring, Arm	1559		All
PJBVC0151Z	Spring	685		All
PJCGC0003Z	Solenoid, Damper	1561		All
PJDGC0170Z	Gear 2, Screw 2	1324		All
PJDGC0186Z	Gear, Feed	639		All
PJDHC0019Z	Cam, Feed	682		All
PJDIC0011Z	Joint, Screw	1344		All
PJGFC0033Z	Label, Bypass Tray	127		PK, PT
PJGFC1214Z	Label, EPA	212		All
PJGTC0053Z	Label, Heater Main	224		PK
PJHEC0124Z	Pad, Scanning	104		All
PJHSC0025Z	Gasket	952		PA, PB, PF, PM, PP, PS, PY
PJJWC0009Z	Cord, Line	3903		ABR, AKR, AWR
PJJWC0010Z	Cord, Line	3903		AGR
PJJWC0011Z	Cord, Line	3903		AMR
PJJXC0042Z	Firmware CD	3804		All
PJJXC0228Z	CD (For Operating Instructions)	3408		Except PK, PT
PJJXC0230Z	Software CD	3407		PU, PUG
PJJXC0232Z	Software CD	3407		Except PU, PUG, PK
PJJXC0234Z	Software CD	3407		PK
PJJXC0257Z	Software CD	3502		PU, PUG

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
PJJXC0259Z	Software CD	3502		Other
PJJXC0261Z	Software CD	3502		PK
PJJXC0263Z	Software CD	3603		PU, PUG
PJJXC0265Z	Software CD	3603		Other
PJJXC0267Z	Software CD	3603		PK
PJPAC0004Z	Pad, Top	3402		PK
PJPAC0005Z	Palette, Wooden	3414		PK
PJPAC0011Z	Palette, Wooden	3414		PU, PUG
PJPGC0327Z	Box, Bottom	3413		Except PU, PUG, PK
PJPGC0328Z	Pad	3412		Except PK
PJPGC0371Z	Box, Bottom	3413		PU, PUG
PJPGC0681Z	Box	3405	For DP-8020E	Except PU, PUG, PK
PJPGC0682Z	Box	3405	For DP-8020E	PU
PJPGC0683Z	Box	3405	For DP-8020E	PK
PJPGC0684Z	Angle, L	3419		PK
PJPGC0685Z	Box, Bottom	3413		PK
PJPGC0686Z	Box	3405	For DP-8020P*	Except PU, PUG, PK
PJPGC0687Z	Box	3405	For DP-8020P*	PU
PJPGC0688Z	Box	3405	For DP-8020P*	PK
PJPGC0689Z	Box	3405	For DP-8016P	Except PU, PUG, PK
PJPGC0690Z	Box	3405	For DP-8016P	PU
PJPGC0691Z	Box	3405	For DP-8016P	PK
PJPGC0723Z	Box	3405	For DP-8020E	PUG
PJPGC0724Z	Box	3405	For DP-8020P*	PUG
PJPGC0725Z	Box	3405	For DP-8016P	PUG
PJPQC0038Z	Process, Cushion R	3420		All
PJPQC0039Z	Process, Cushion L	3421		All
PJQHC0189Z	Notice	3908		All
PJQMC0700Z	Operating Instructions	3418		PK
PJQMC0713Z	Operating Instruction	3418		PT
PJQQC0065Z	Quick Guide	3410		PU, PUG
PJQQC0066Z	Quick Guide	3410		PA, PB, PF, PM, PS
PJQQC0069Z	Quick Guide	3410		PP
PJQQC0070Z	Quick Guide	3410		PY
PJQRC0008Z	Important Notice	3417		Except PK
PJQRC0025Z	Important Notice	3417		PK
PJQRC0172Z	Installation Instructions	3409		All
PJQRC0182Z	Installation Instructions	3504		All
PJQRC0183Z	Installation Instructions	3601		All
PJRCC0004Z	Label, Sensor	1619		All
PJRCC0005Z	Label 3, Sensor	136		All
PJSCC0015Z	Brush, Antistatic	1028		All
PJSDC0005Z	Drive, Ground Spring	1557		All
PJUAC0215Y	Frame, OPC	1442		All
PJUIC0218Z	Base, Key Counter	237		All
PJUIC0219Z	Cover, Key Counter	238		All
PJUIC0221Z	Cover, Key Counter Front	239		All
PJUIC0254Z	Bracket, ADF Mounting	2112		All
PJUIC0310Z	Bracket, Solenoid	1554		All
PJURC0055Z	Pipe, Support	1338		All
PJUSC0077Z	Spacer, Feed	653		All
PJVZF2121PB	Guide Bias Transfer Assy	748		All
PJWPF2740AZ	PC Board, RLB	2804		All
PJWQF2120PB	Assembly, Lift Motor	3138		All
PJWQF2121PB	Assembly, Bottle Motor	1503		All
PJYCF2120PB0	Assembly, Cushion	3411		Except PU, PUG, PK
PJYCF2120PK0	Assembly, Cushion	3411		PK
PJYCF2120PU0	Assembly, Cushion	3411		PU, PUG
PJYPF3180PB	Assembly, Control Panel	538	For DP-8020E	PA, PB, PM, PP, PS, PY

Alphanumerical Parts List				
Part Number	**Part Name**	**Ref. No.**	**Remarks**	**Destination**
PJYPF3180PF	Assembly, Control Panel	538	For DP-8020E	PF
PJYPF3180PK	Assembly, Control Panel	538	For DP-8020E	PK
PJYPF3180PT	Assembly, Control Panel	538	For DP-8020E	PT
PJYPF3180PU	Assembly, Control Panel	538	For DP-8020E	PU, PUG
PJYPF3181PB	Assembly, Control Panel	538	For DP-8020P*	PA, PB, PM, PP, PS, PY
PJYPF3181PF	Assembly, Control Panel	538	For DP-8020P*	PF
PJYPF3181PK	Assembly, Control Panel	538	For DP-8020P*	PK
PJYPF3181PT	Assembly, Control Panel	538	For DP-8020P*	PT
PJYPF3181PU	Assembly, Control Panel	538	For DP-8020P*	PU, PUG
PJYPF3182PF	Assembly, Control Panel	538	For DP-8016P	PF
PJYPF3182PK	Assembly, Control Panel	538	For DP-8016P	PK
PJYPF3182PT	Assembly, Control Panel	538	For DP-8016P	PT
PJYPF3182PU	Assembly, Control Panel	538	For DP-8016P	PU, PUG, PA, PB, PM, PP, PS, PY
PJZEF21200PU	Scanning Pad	1822		All
PJZEF2121PU	Ground Spring Kit	1556		All
PJZFF3180PB	Assembly, Feed Roller Shaft	696		All
PJZNF3100PK	CCD Unit	427		All
PJZSF2121PB2	Fuser Unit	1027	For DP-8016P	Except PU, PUG, PT
PJZSF2121PU2	Fuser Unit	1027	For DP-8016P	PU, PUG, PT
PJZSF3180PB	Fuser Unit	1027	For DP-8020E/8020P*	Except PU, PUG, PT
PJZSF3180PU	Fuser Unit	1027	For DP-8020E/8020P*	PU, PUG, PT
PJZYF212500	Bushing Screw Assy	1360		All
PJZYF212CAZ	Assembly, Cleaning Pad	1455		All
PJZYF212D00	Assembly, Charge Corona	1447		All
PJZYF212E00	Assembly, Process Unit	1449		All
PJZYF212F00	Assembly, OPC Frame	1448		All
PJZYF3184PK	Hopper Unit	1217		PK
PJZYF3184PU	Hopper Unit	1217		PU, PUG
SPM-3	Spacer	1544		All
XNC3FJ	Nut	Y7		All
XPJ2D14WV	Pin 3	1553		All
XSB4+10FJ	Screw	Y11		All
XSN3+W10FJ	Screw	Y5		All
XSN4+W10FN	Screw	F7		All
XTB3+10GFJ	Screw	X1		All
XTB3+12GFJ	Screw	6A		All
XTB3+12JFJ	Screw	W9		All
XTB3+20GFJ	Screw	X4		All
XTB3+32GFJ	Screw	Y4		All
XTB3+6FFJ-RP	Screw	Y2		All
XTB3+6JFJ	Screw	62		All
XTB3+8FFJ	Screw	X9		All
XTB3+8GFJ	Screw	X8		All
XTB3+8GFN	Screw	Q8		All
XTB3+8JFI	Screw	B4		All
XTB3+8JFJ	Screw	X6		All
XTB4+8JFJ	Screw	1N		All
XTN3+10GFJ	Screw	Y8		All
XTW3+10SFJ	Screw	E8		All
XTW3+6LFJ	Screw	Y3		All
XTW3+6LFJR	Screw	Y6		All
XTW3+8PFJ	Screw	Y1		All
XUC3VM	E-Ring	J6		All
XUC4VM	E-Ring	J7		All
XUC5VM	E-Ring	K5		All
XUC6VM	E-Ring	5Z		All
XUC7VM	E-Ring	J8		All
XYN26+F4FJ	Screw	1562		All

Alphanumerical Parts List

Part Number	Part Name	Ref. No.	Remarks	Destination
XYN3+F14FJ	Screw	X7		All
XYN3+F4FJ	Screw	5M		All
XYN3+F5FJ	Screw	3F		All
XYN3+F6FJ	Screw	18		All
XYN3+F8FJ	Screw	X3		All
XYN4+F6FJ	Screw	Y10		All
XYN4+F8FJ	Screw	Y9		All

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